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WATER-RESOURCES REPORT NUMBER TWENTY-SEVEN
ARIZONA STATE LAND DEPARTMENT
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1912

BASIC GROUND-WATER DATA FOR WESTERN SALT RIVER VALLEY
MARICOPA COUNTY, ARIZONA

BY
WILLIAM KAM, H. H. SCHUMANN,
L. R. KISTER, AND F. E. ARTEAGA

PREPARED BY THE GEOLOGICAL SURVEY
UNITED STATES DEPARTMENT OF THE INTERIOR
IN COOPERATION WITH THE
ARIZONA STATE LAND DEPARTMENT
AND THE MARICOPA COUNTY MUNICIPAL
WATER CONSERVATION DISTRICT NO. 1

PHOENIX, ARIZONA
JUNE 1966

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ARIZONA STATE LAND DEPARTMENT WATER-RESOURCES REPORTS

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No.

* 1. Pumpage and ground-water levels in Arizona in 1955, by P. W. Johnson, N. D. White, and J. M. Cahill: 69 p., 30 figs., 1956.

* 2. Annual report on ground water in Arizona, spring 1956 to spring 1957, by J. W. Harshbarger and others: 42 p., 18 figs., 1957.

* 3. Geology and ground-water resources of the Harquahala Plains area, Maricopa and Yuma Counties, Arizona, by D. G. Metzger: 40 p., 2 pls., 7 figs., 1957.

* 4. Geology and ground-water resources of the Palomas Plain-Dendora Valley area, Maricopa and Yuma Counties, Arizona, by C. A. Armstrong and C. B. Yost, Jr.: 49 p., 3 pls., 4 figs., 1958.

* 5. Annual report on ground water in Arizona, spring 1957 to spring 1958, by W. F. Hardt, J. M. Cahill, and M. B. Booher: 60 p., 19 figs., 1958.

* 6. Annual report on ground water in Arizona, spring 1958 to spring 1959, by W. F. Hardt, R. S. Stulik, and M. B. Booher: 61 p., 18 figs., 1959.

* 7. Annual report on ground water in Arizona, spring 1959 to spring 1960, by W. F. Hardt, R. S. Stulik, and M. B. Booher: 89 p., 22 figs., 1960.

8. Geology and ground-water resources of the McMullen Valley, Maricopa, Yavapai, and Yuma Counties, Arizona, by William Kam: 72 p., 17 figs., 1961.

9. Hydrologic data and drillers' logs, Papago Indian Reservation, Arizona, by L. A. Heindl and O. J. Cosner, with a section on chemical quality of the water by L. R. Kister: 116 p., 3 figs., 1961.

*10. Annual report on ground water in Arizona, spring 1960 to spring 1961, by N. D. White, R. S. Stulik, E. K. Morse, and others: 93 p., 32 figs., 1961.

*11. Annual report on ground water in Arizona, spring 1961 to spring 1962, by N. D. White, R. S. Stulik, and others: 116 p., 35 figs., 1962.

No.

* 12A. Geohydrologic data in the Navajo and Hopi Indian Reservations, Arizona, New Mexico, and Utah—Part I, Records of ground-water supplies, by G. E. Davis, W. F. Hardt, L. K. Thompson, and M. E. Cooley: 159 p., 3 figs., 1963.

* 12B. Geohydrologic data in the Navajo and Hopi Indian Reservations, Arizona, New Mexico, and Utah—Part II, Selected chemical analyses of the ground water, by L. R. Kister and J. L. Hatchett: 58 p., 2 figs., 1963.

12C. Geohydrologic data in the Navajo and Hopi Indian Reservations, Arizona, New Mexico, and Utah—Part III, Selected lithologic logs, drillers' logs, and stratigraphic sections, by M. E. Cooley, J. P. Akers, and P. R. Stevens: 157 p., 3 figs., 1964.

13. Desert floods—a report on southern Arizona floods of September 1962, by D. D. Lewis: 13 p., 18 figs., 1963.

*14. Basic ground-water data of the Willcox basin, Graham and Cochise Counties, Arizona, by S. G. Brown, H. H. Schumann, L. R. Kister, and P. W. Johnson: 93 p., 15 figs., 1963.

*15. Annual report on ground water in Arizona, spring 1962 to spring 1963, by N. D. White, R. S. Stulik, E. K. Morse, and others: 136 p., 47 figs., 1963.

16. Effects of ground-water withdrawal in part of central Arizona projected to 1969, by N. D. White, R. S. Stulik, and C. L. Rauh: 25 p., 7 figs., 1964.

17. Effects of ground-water withdrawal, 1954-63, in the lower Harquahala Plains, Maricopa County, Arizona, by R. S. Stulik: 8 p., 5 figs., 1964.

18. Basic ground-water data for western Pinal County, Arizona, by W. F. Hardt, R. E. Cattany, and L. R. Kister: 59 p., 4 figs., 1964.

19. Annual report on ground water in Arizona, spring 1963 to spring 1964, by N. D. White, R. S. Stulik, E. K. Morse, and others: 60 p., 27 figs., 1964.

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BASIC GROUND-WATER DATA FOR WESTERN SALT RIVER VALLEY, MARICOPA COUNTY, ARIZONA

By William Kam, H. H. Schumann, L. R. Kister, and F. E. Arteaga

Introduction

In November 1961 the U. S. Geological Survey in cooperation with the Arizona State Land Department, O. M. Lassen, Commissioner, and the Maricopa County Municipal Water Conservation District No. 1, H. S. Raymond, district engineer, began an investigation of the geology and ground-water resources of western Salt River Valley.

The purpose of this report is to make available basic ground-water data that are useful in planning and studying water-resources development in the area and to supplement other reports that will be published later.

The tabulated and illustrated data include information from 1917 to 1965. Most of the well data, logs, well discharges, and reported drawdowns were obtained from well-owners' records and from well–registration forms submitted to the Arizona State Land Department. Water-level measurements have been made in the area by the U. S. Geological Survey since 1939.

The western Salt River Valley encloses 500 square miles of farmland, most of which is irrigated. The area is bounded on the south by the Gila and Salt River base line, on the north by lat 33° 45', on the east by long 112° 13', and on the west by the White Tank Mountains (fig. 1).

The well records are arranged in numerical order by township, range, and section under the well-numbering system used in Arizona in accordance with the Bureau of Land Management's system of land subdivision (fig. 2).

Acknowledgments and Personnel

The authors appreciate the assistance of those who contributed information for this report. Much of the information was obtained from pump companies and well drillers operating in the area. Acknowledgment is made to Mr. H. S. Raymond of the Maricopa County Municipal Water Conservation District No. 1, not only for financial cooperation but also for his enthusiastic assistance in all phases of the data collection. Special thanks are due Mr. C. I. Parkmann, Goodyear Farms; Mr. J. P. Vandenburgh, Roosevelt Irrigation District; Mr. W. W. Weigold, Buckeye Irrigation Co.; and Mr. R. L. Juettin, Salt River Valley Water Users' Association, for permitting access to their records. The authors also wish to thank Messrs. K. J. DeCook and W. A. Ramsey of the consulting engineering firm of W. S. Gookin and Associates, Phoenix, for allowing the use of data collected by them during a well-drilling program for the Roosevelt Irrigation Co.

Work in the area was begun under the direction of P. E. Dennis, district geologist of the Ground

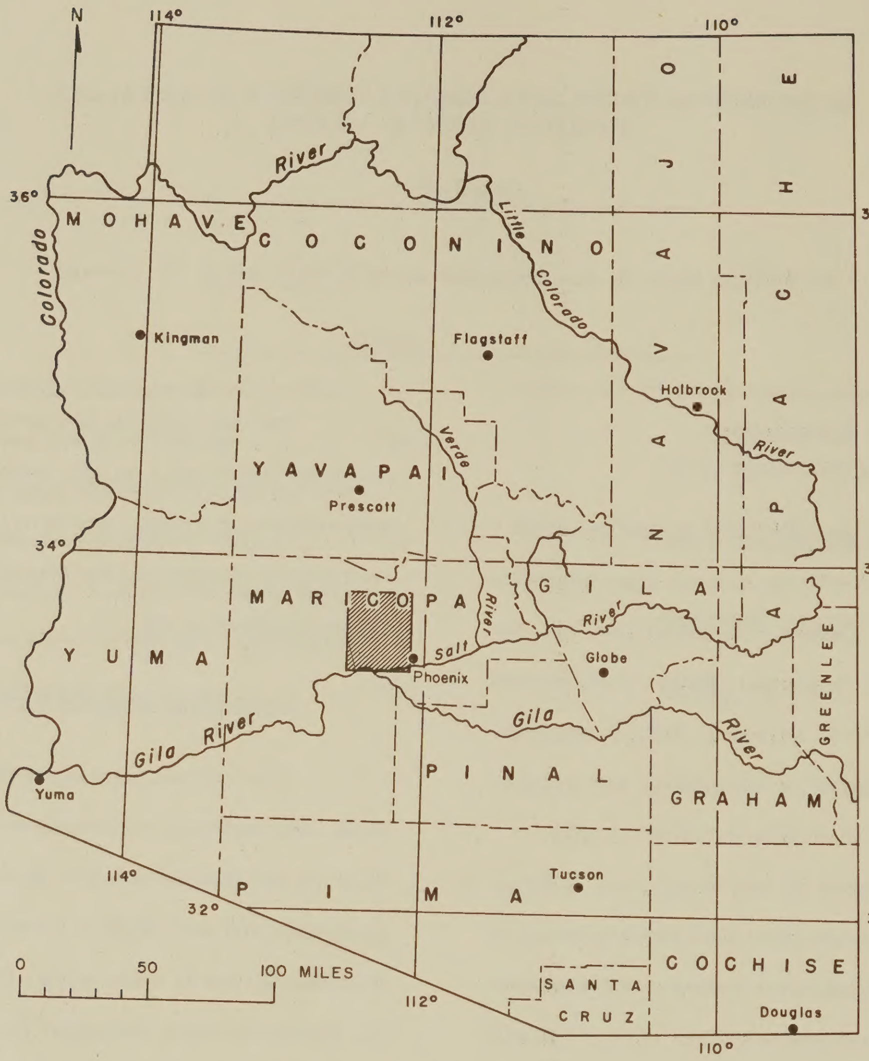


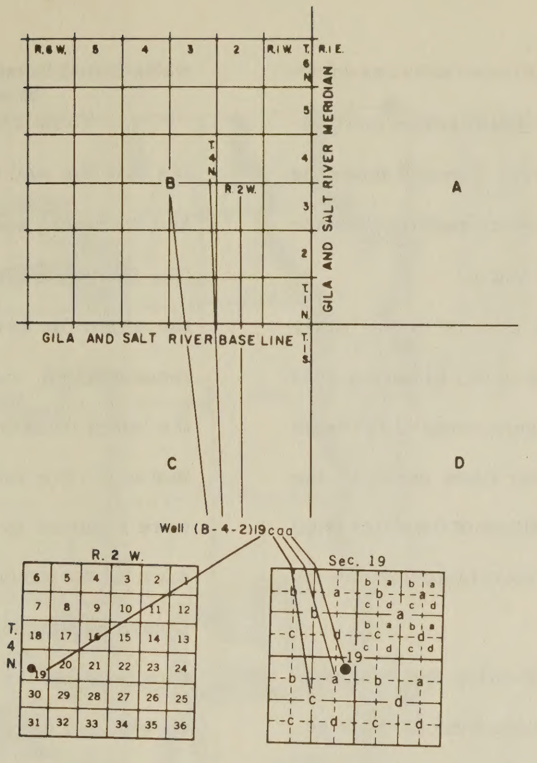
Figure 1.--Area of report.

Water Branch in Arizona, and continued under H. M. Babcock, present chief of the Water Resources Division in Arizona. Substantial contributions, including the basic-data collection, were made by personnel of the Arizona district. Those deserving special mention are H. W. Steppuhn and R. S. Stulik.

Explanation of Illustrations and Tables

Included in this report are tables of well records, drillers' logs, and chemical analyses. The illustrations consist of maps and graphs. The maps show well locations, water-level altitudes, and water-level changes; the graphs show the water-level changes in wells, well-production history, and the differential vertical movement between the land surface and well casing.

Illustrations.--In addition to showing the locations of wells listed in table 1, figure 3 also shows location of wells for which drillers' logs are



The well numbers used by the Geological Survey in Arizona are in accordance with the Bureau of Land Management's system of land subdivision. The land survey in Arizona is based on the Gila and Salt River meridian and base line, which divide the State into four quadrants. These quadrants are designated counterclockwise by the capital letters A B, C, and D. All land north and east of the point of origin is in A quadrant, that north and west in B quadrant, that south and west in C quadrant, and that south and east in D quadrant. The first digit of a well number indicates the township, the second the range, and the third the section in which the well is situated. The lowercase letters a, b, c, and d after the section number indicate the well location within the section. The first letter denotes a particular 160-acre tract, the second the 40-acre tract, and the third the 10-acre tract. These letters also are assigned in a counterclockwise direction, beginning in the northeast quarter. If the location is known within the 10-acre tract, three lowercase letters are shown in the well number. In the example shown, well number (B-4-2)19caa designates the well as being in the NE$\frac{1}{4}$NE$\frac{1}{4}$SW$\frac{1}{4}$ sec. 19, T. 4 N., R. 2 W. Where there is more than one well within a 10-acre tract, consecutive numbers beginning with 1 are added as suffixes.

Figure 2. --Well-numbering system in Arizona.

included and delineates the cultivated areas as determined from 1964 Agricultural Stabilization and Conservation Service photomosaics. Figure 4 shows the location of selected wells for which quality-of-water data are included in tables 3 and 4.

Figure 5 shows the altitude of the water level, in feet above mean sea level, in spring 1964 based on more than 280 measurements of the depth to water in wells. The contour lines shown on the map connect points of equal altitude of the water level and depict the shape of the water-table surface for the date indicated.

Figure 6 is a map showing the change in water levels that occurred during the 12-year period 1952-64. The changes are shown by lines that connect points of equal change as determined from water-level measurements for the two specified dates.

Figures 7, 8, and 9 show hydrographs of the depth to water in 18 selected wells in the area.

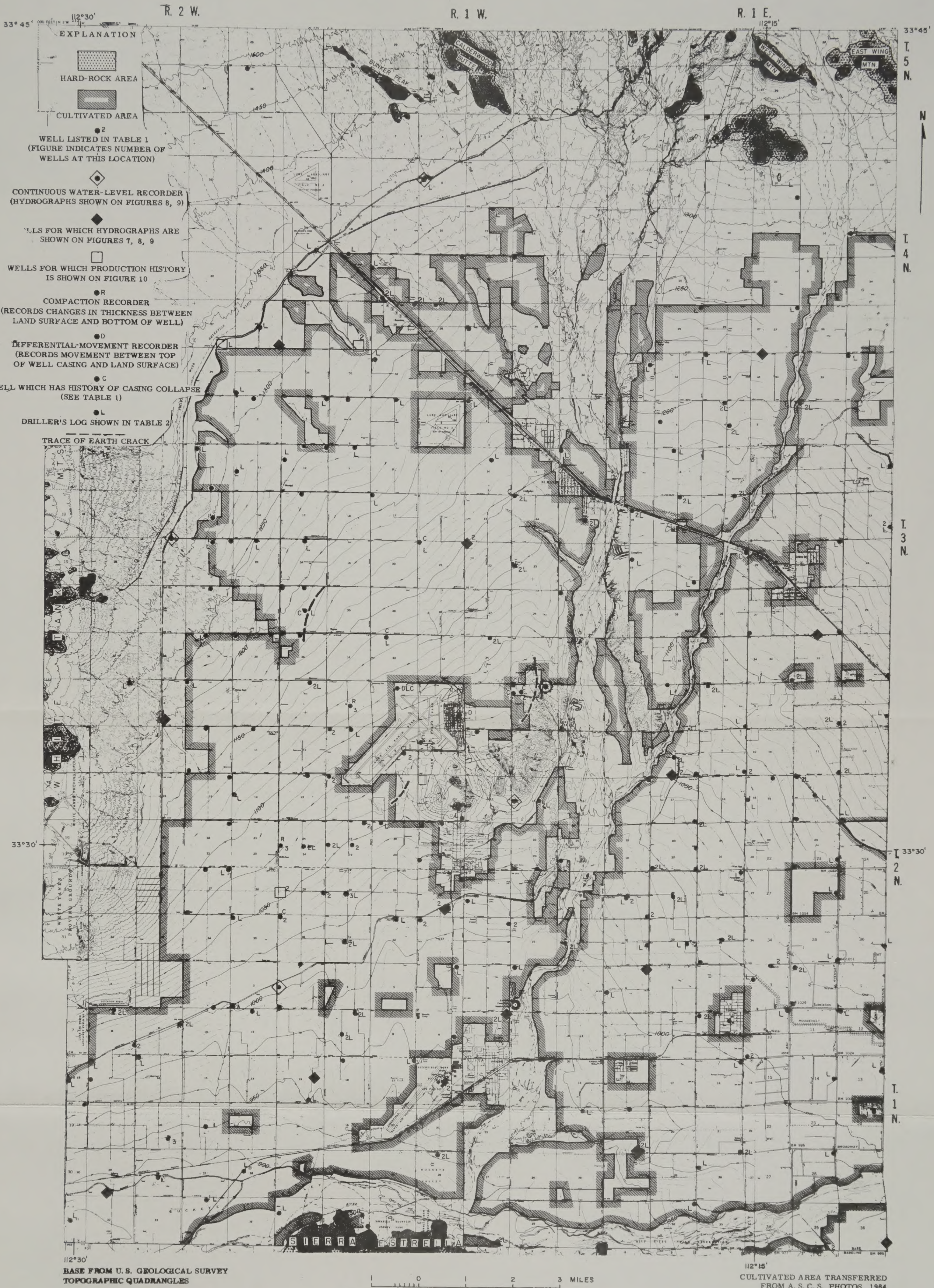
Figure 10 shows the well-production history for four selected wells. The graphs relate the changes in static water levels, pumping levels, specific capacities, and well deepenings.

Figure 11 is a graph showing vertical differential movement between the land surface and the top of the well casing for two wells in the area. These data, used in conjunction with periodic releveling, will permit identification and measurement of land subsidence.

Table 1.--The well records included in this table were selected as a representative sampling of the many wells in the area. Table 1 is cross-referenced with tables 2 and 3, and the locations of wells listed in table 1 are shown on figure 3.

Table 1 includes the well-location number, the date the well was completed to the depth shown, and the casing and perforation record, if available. The first water levels shown are those reported by the owner or driller or the first depth-to-water measurement, and the second water level shown is the latest measured or reported depth to water for that well. For the most part, the well yields shown were reported by the driller or owner. The drawdown is the amount of lowering of the water level caused by pumping the well, and, thus, is the difference between the static nonpumping water level in the well and the pumping water level at a given production rate. The drawdowns shown in table 1 were measured by the driller, pump installer, or the owner at the time of the production or pump-efficiency tests. The length of time that the well was pumped to obtain the reported drawdown usually is not known. The specific capacity of a well is the relation of yield to drawdown; thus, it is the yield of the well (gallons per minute) divided by the drawdown (feet) caused by pumping at that rate. The resulting figure is expressed in gallons per minute per foot of drawdown. The availability of supplementary information in tables 2 and 3 is indicated by appropriate symbols in the columns headed "Log" and "Chemical analysis." The remarks column contains supplementary data, such as whether or not water levels have been measured regularly, reported well deepenings, well-casing collapse, and other information.

Table 2.--Table 2 includes drillers' logs that are considered representative or otherwise of special significance. The locations of wells listed

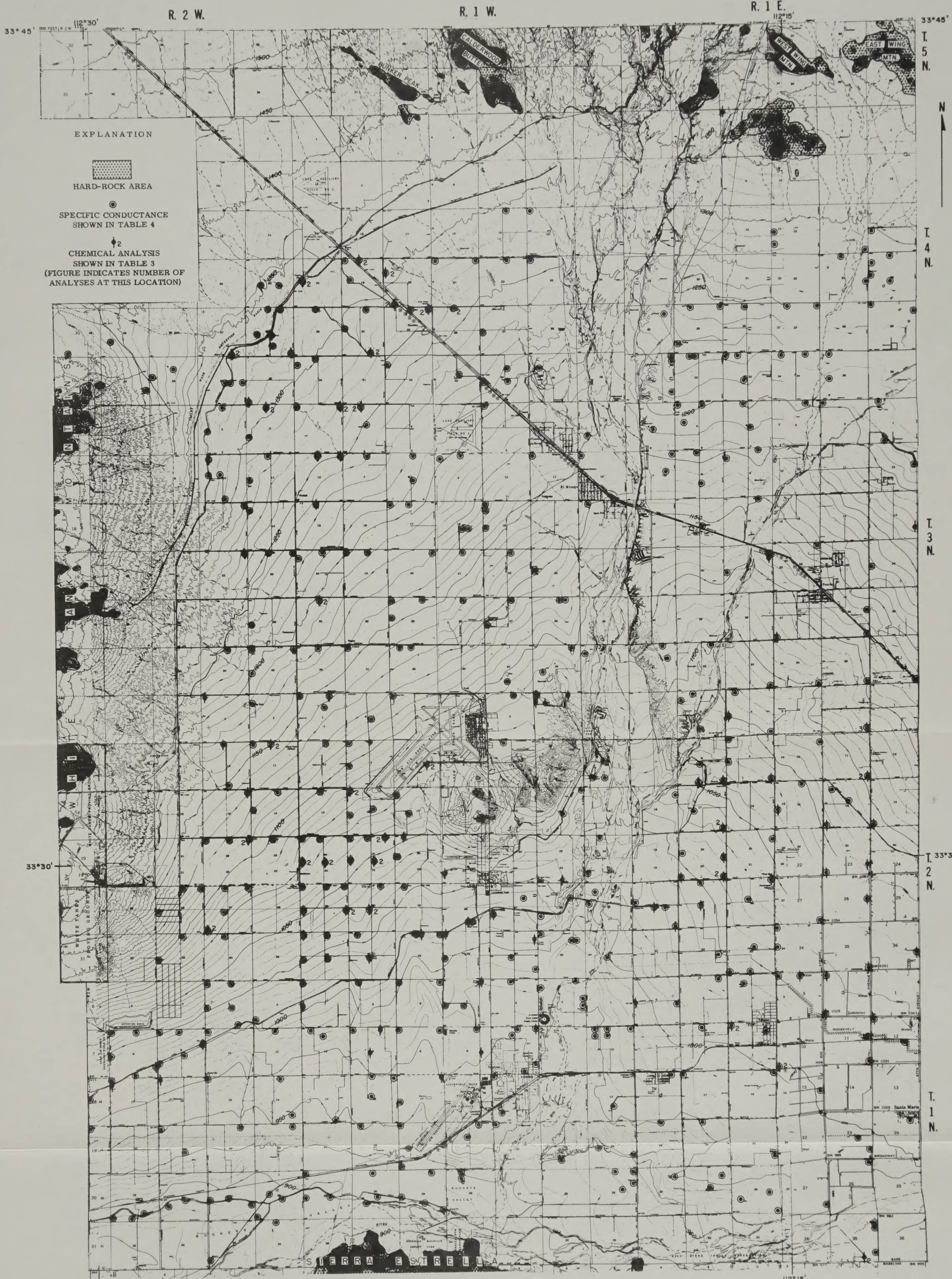

R. 2 W.
R. 1 W.
R. 1 E.
33°45'
112°30'
112°15'
33°45'
T. 5 N.
T. 4 N.
T. 3 N.
T. 2 N.
T. 1 N.
33°30'
33°30'
112°30'
112°15'
N
EXPLANATION
HARD-ROCK AREA
CULTIVATED AREA
WELL LISTED IN TABLE 1 (FIGURE INDICATES NUMBER OF WELLS AT THIS LOCATION)
CONTINUOUS WATER-LEVEL RECORDER (HYDROGRAPHS SHOWN ON FIGURES 8, 9)
WELLS FOR WHICH HYDROGRAPHS ARE SHOWN ON FIGURES 7, 8, 9
WELLS FOR WHICH PRODUCTION HISTORY IS SHOWN ON FIGURE 10
R
COMPACTION RECORDER (RECORDS CHANGES IN THICKNESS BETWEEN LAND SURFACE AND BOTTOM OF WELL)
D
DIFFERENTIAL-MOVEMENT RECORDER (RECORDS MOVEMENT BETWEEN TOP OF WELL CASING AND LAND SURFACE)
C
WELL WHICH HAS HISTORY OF CASING COLLAPSE (SEE TABLE 1)
L
DRILLER'S LOG SHOWN IN TABLE 2
TRACE OF EARTH CRACK
CALDERWOOD BUTTE
BUNKER PEAK
WEST WING MTN.
EAST WING MTN
WHITE TANK MTS
SIERRA ESTRELLA
1500
1450
1350
1300
1250
1200
1150
1100
1050
1000
950
900
1 0 1 2 3 MILES

BASE FROM U. S. GEOLOGICAL SURVEY TOPOGRAPHIC QUADRANGLES

TOPOGRAPHIC CONTOURS AT 5- AND 10-FOOT INTERVALS (DATUM IS MEAN SEA LEVEL)

CULTIVATED AREA TRANSFERRED FROM A. S. C. S. PHOTOS, 1964
HYDROLOGY BY H. H. SCHUMANN AND WILLIAM KAM, 1965

FIGURE 3.--LOCATION OF SELECTED WELLS AND CULTIVATED AREA AS OF JANUARY 1964 IN WESTERN SALT RIVER VALLEY.



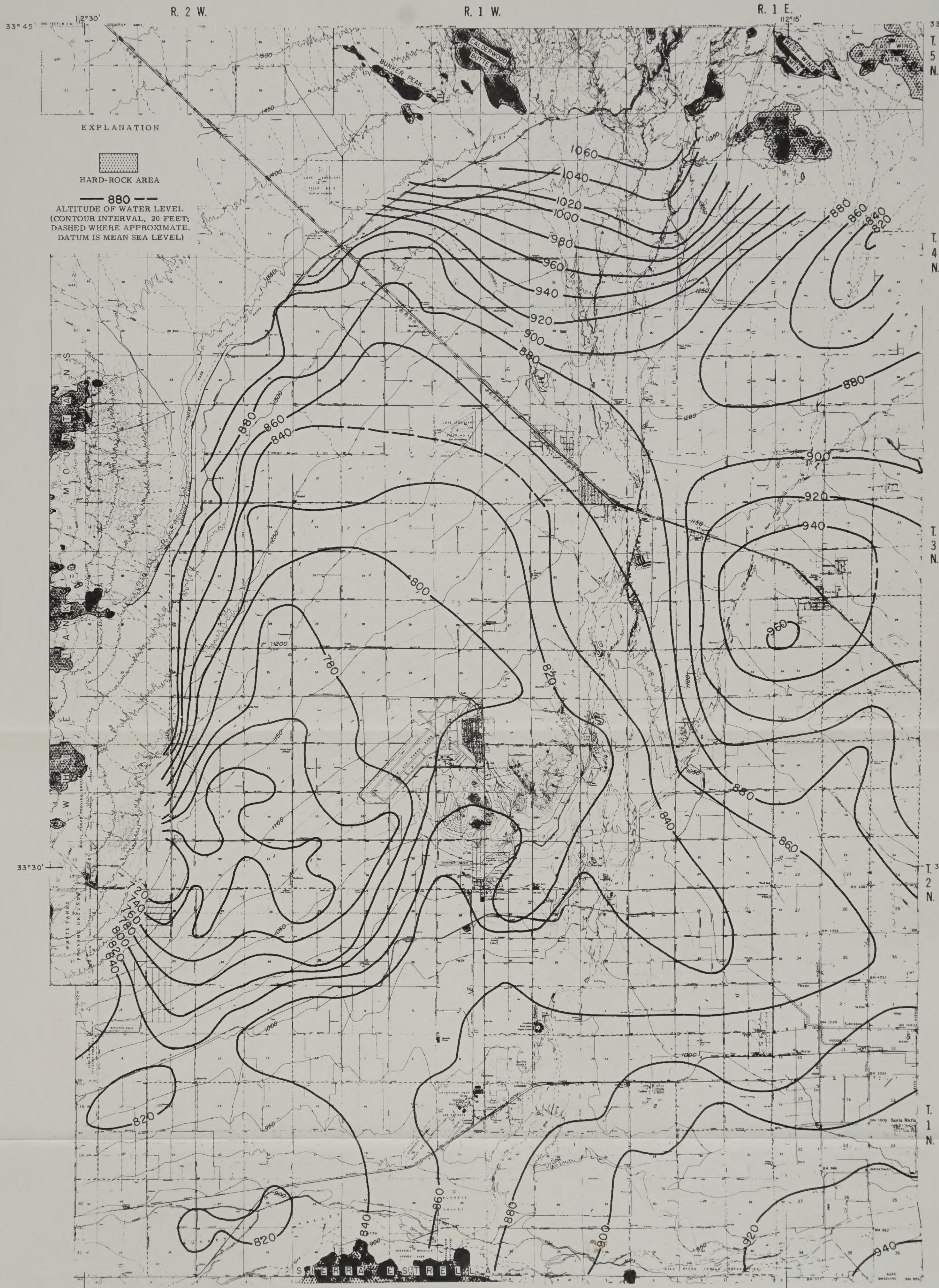
BASE FROM U.S. GEOLOGICAL SURVEY
TOPOGRAPHIC QUADRANGLES

1 0 1 2 3 MILES

TOPOGRAPHIC CONTOURS AT 5- AND 10-FOOT INTERVALS
(DATUM IS MEAN SEA LEVEL)

HYDROLOGY BY WILLIAM KAM,
L. R. KISTER, AND F. E. ARTEAGA, 1965

FIGURE 4.--LOCATION OF SELECTED WELLS FOR WHICH QUALITY-OF-WATER DATA ARE INCLUDED, WESTERN SALT RIVER VALLEY.



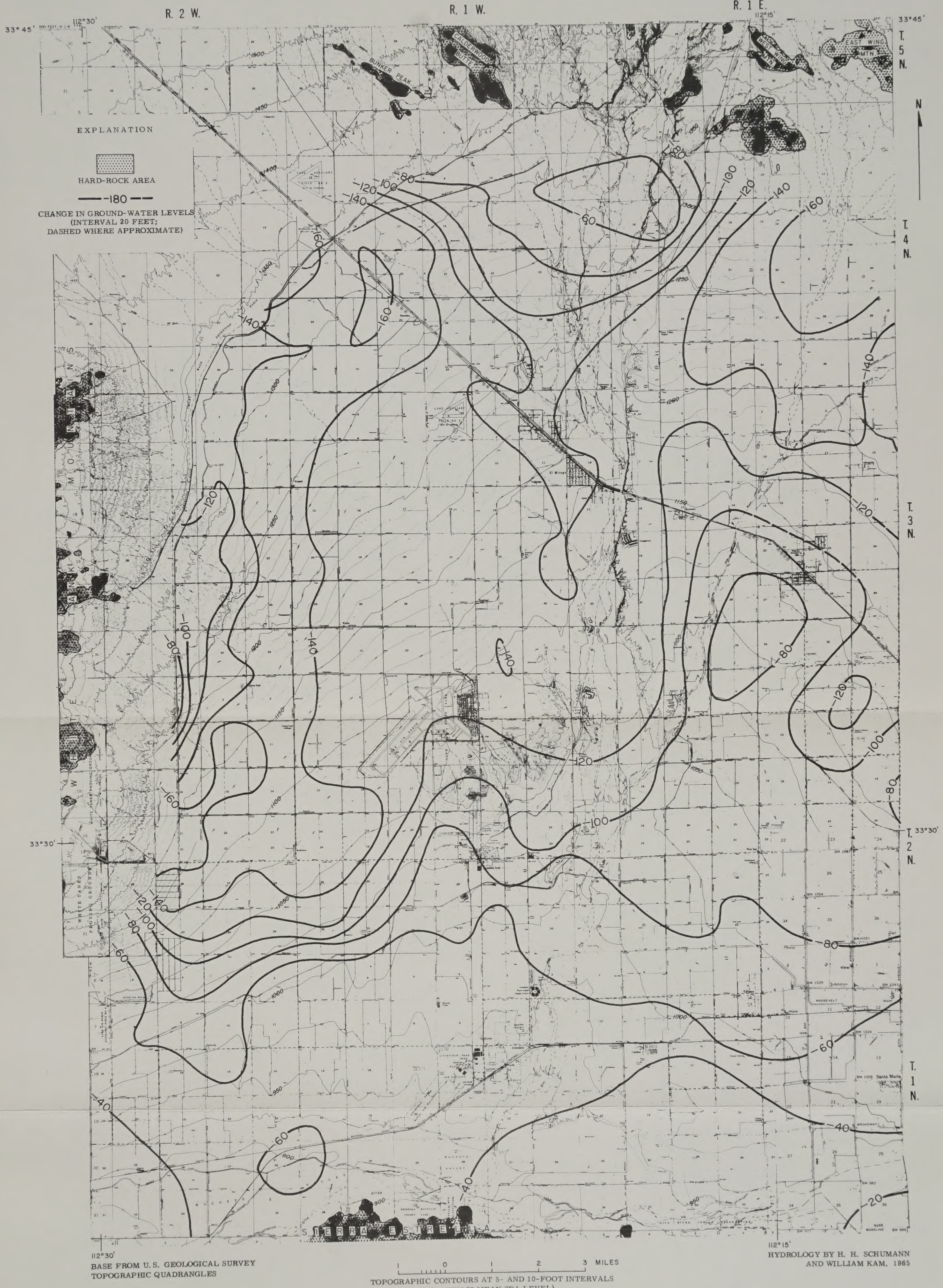
BASE FROM U. S. GEOLOGICAL SURVEY
TOPOGRAPHIC QUADRANGLES

1 0 1 2 3 MILES

TOPOGRAPHIC CONTOURS AT 5- AND 10-FOOT INTERVALS
(DATUM IS MEAN SEA LEVEL)

HYDROLOGY BY H. H. SCHUMANN
AND WILLIAM KAM, 1965

FIGURE 5.--ALTITUDE OF THE WATER LEVEL, SPRING 1964, IN WESTERN SALT RIVER VALLEY.



BASE FROM U. S. GEOLOGICAL SURVEY
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FIGURE 6.--CHANGE IN GROUND-WATER LEVELS FROM 1952 TO 1964 IN WESTERN SALT RIVER VALLEY.

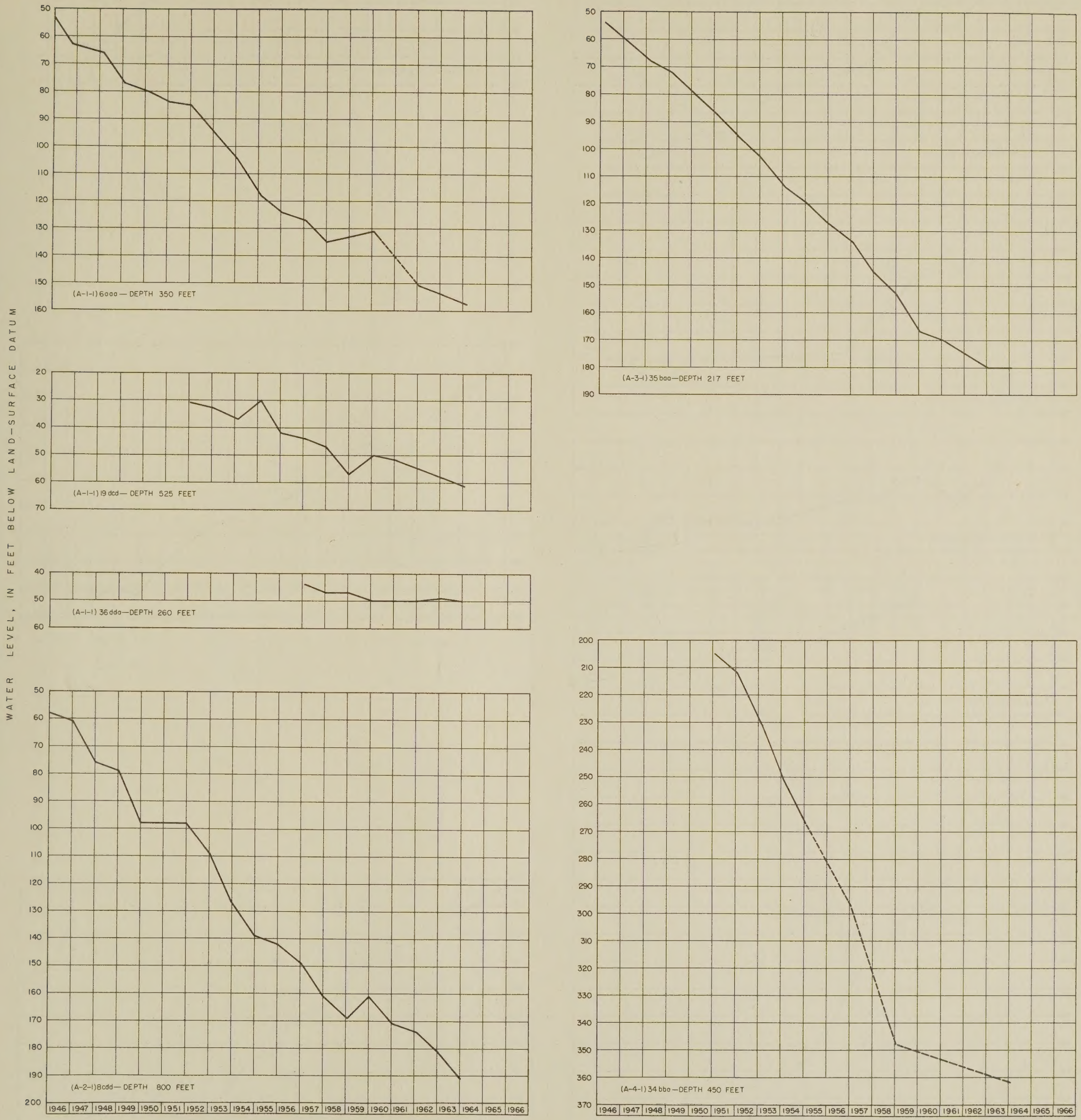

Figure 7.--Water levels in selected wells in the Tolleson-Marinette area.

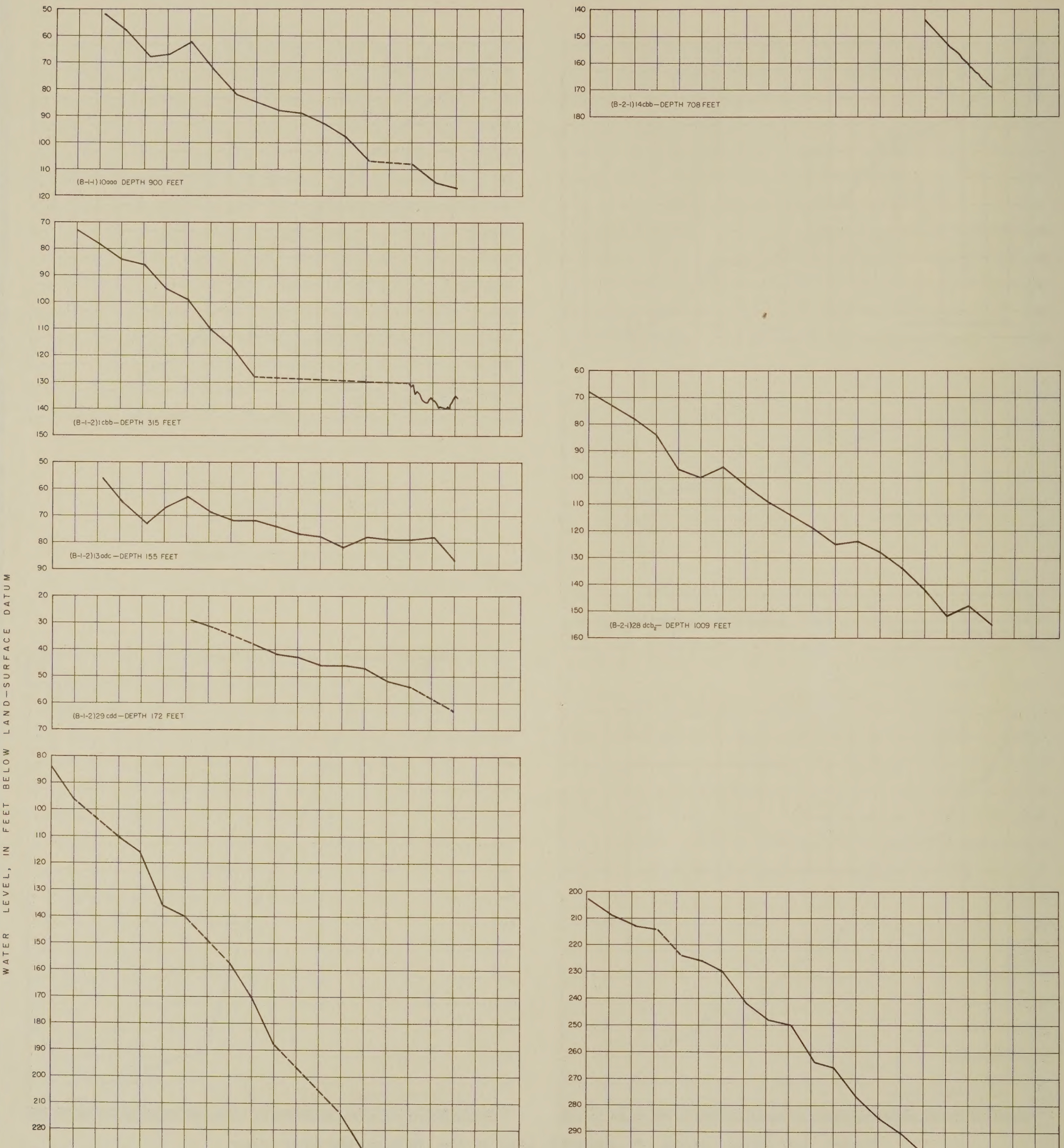

Figure 8.—Water levels in selected wells in the Goodyear-Litchfield Park area.

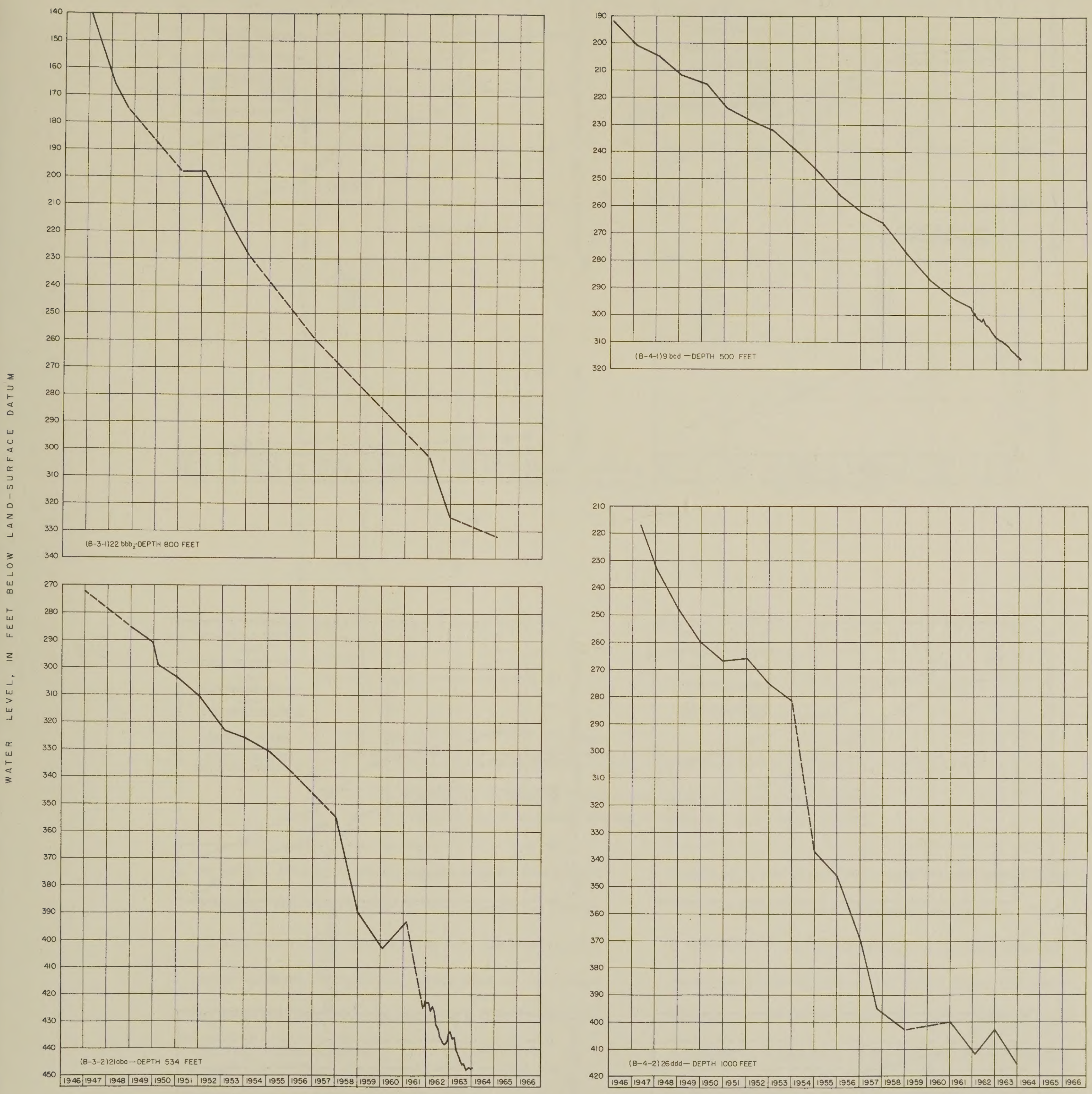

Figure 9.-- Water levels in selected wells near Beardsley.

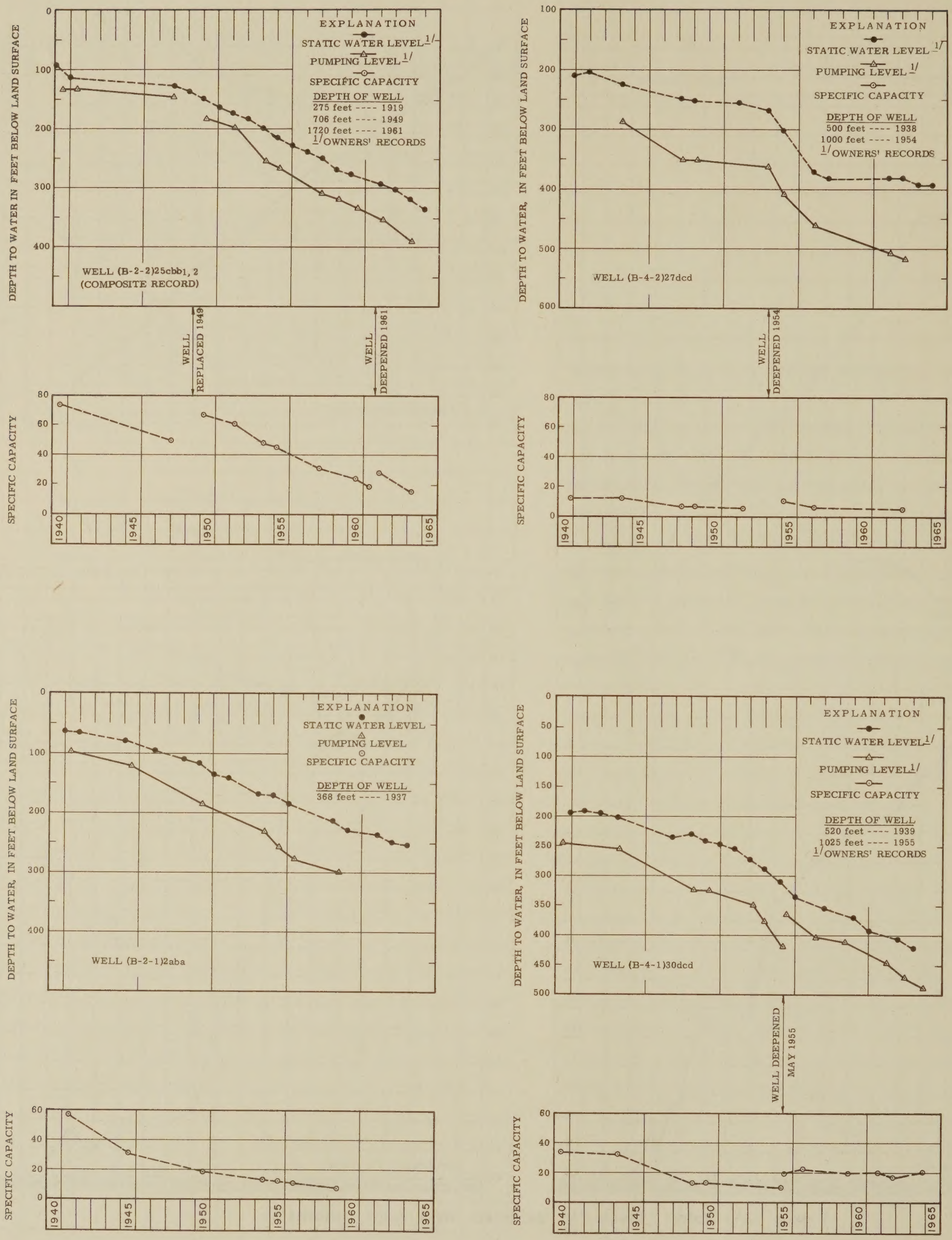

Figure 10.--Static water levels, pumping lifts, and specific capacities for four wells in western Salt River Valley.

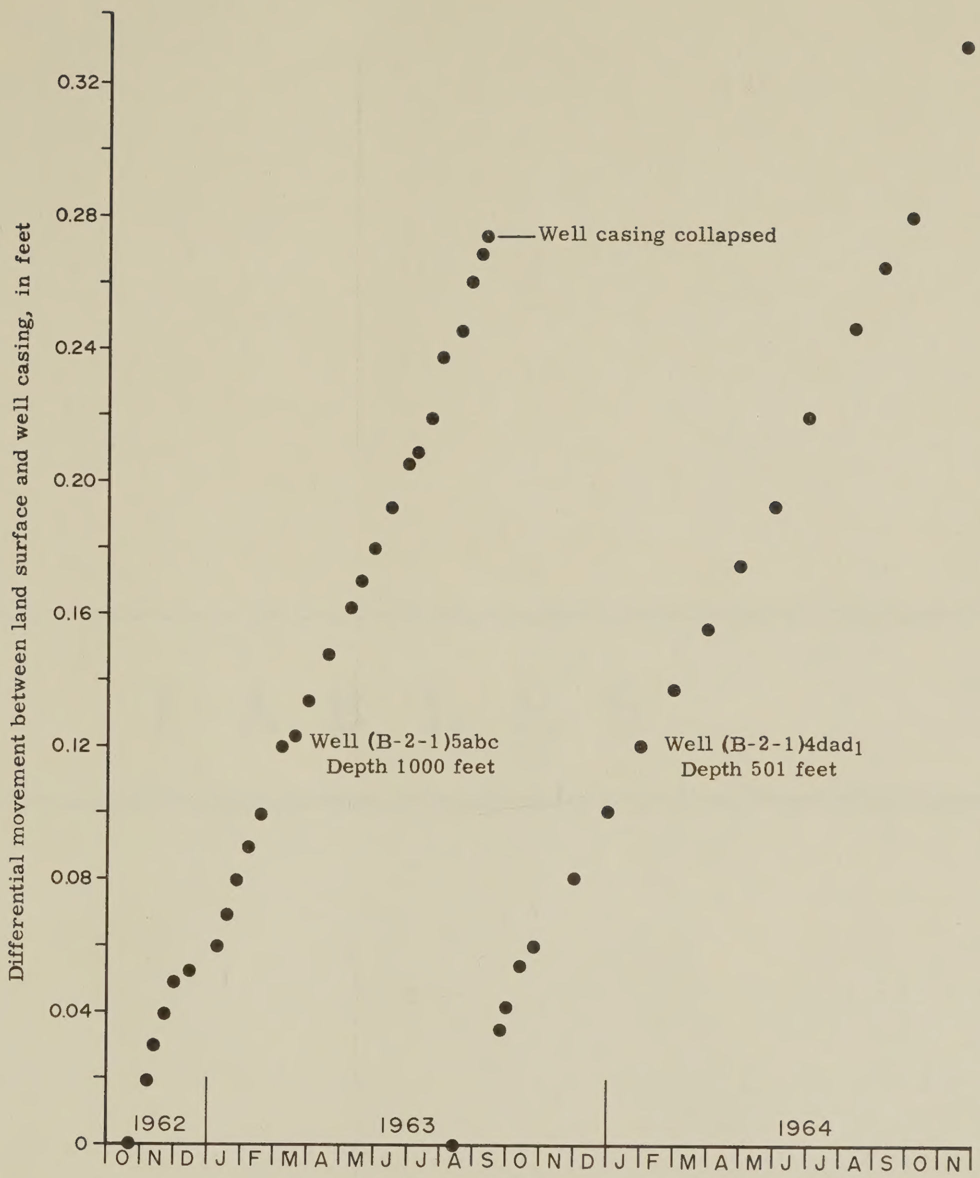

Figure 11. --Rate of differential vertical movement between land surface and well casing in western Salt River Valley.

in table 2 are shown on figure 3. The drillers' terminology has been retained, and, except for minor changes in spelling and punctuation, the logs are the same as those submitted by the driller or the owner to the State Land Department or to a U.S. Geological Survey representative.

Tables 3 and 4.--Table 3 contains laboratory determinations of the amount of the dissolved constituents in the ground water. The locations of wells listed in tables 3 and 4 are shown on figure 4. Table 4 contains field determinations of specific conductance and temperature of the water from 449 wells sampled in the summer of 1965. The specific conductance is a measure of the ability of the water to conduct an electric current. The conductance varies with the concentration of ions in solution and is a measure of the dissolved-solids content of the water.

TABLES

Table 1. --Records of selected wells in western Salt River Valley

Location: See p. 3 for description of well-numbering and location system.
Land-surface altitude: Altitude of land surface of most wells determined from topographic maps.
Water level: Reported water levels are given in feet; measured water levels are given in feet and tenths.
Yield: Yield is given to the nearest 10 gpm (gallons per minute) as reported by owner, pump company, or driller.

Drawdown: Difference, in feet, between the static water level and the pumping level as reported, along with the yield, by the owner, pump company, or driller.
Well logs: L, log available but not included in table 2; L2, log included in table 2.
Well cuttings: X, well cuttings available.
Chemical analysis: X, chemical analysis included in table 3.

Location	Land-surface altitude (feet above mean sea level)	Date completed (year)	Depth of well (feet)	Diameter of casing (inches)	Depth of casing (feet)	Perforated interval (feet below land surface)		Water level		Yield		Drawdown (feet)	Specific capacity (gallons per minute per foot of drawdown)	Well logs	Well cuttings	Chemical analysis	Remarks
						From	To	Date (month, year)	Feet below land surface	Date (month, year)	Gallons per minute						
(A-1-1)2bbb1 ...	1,037	1928	300	20	300	50	286	5/28	12	8/29	1,540	30	52	L	......	......	Capped.
2bbb2 ...	1,037	1951	800	20	800	140	782	1/51 2/64	82 178	8/51 9/64	2,470 1,350	64 37	39 36	L2	......	X	
2ccc	1,030	1956	910	20	910	300	898	11/56 3/64	69 164	1/57 7/64	2,920 2,360	64 57	46 41	L	X	X	Pumping-test data available.
3abb1 ...	1,029	1928	150	20	150	......	......	....	....	....	....	......	....	.....	......	......	
3abb2 ...	1,029	1949	600	20	600	200	585	9/49 12/62	76 173.9	9/49 7/63	2,380 2,560	28	85	L	......	X	
3bca	1,024	1940	650	20	423	150	410	9/40 2/62	42 173.6	....	....	......	....	L2	......	......	
6aaa	1,012	....	350	20	....	......	......	4/36 2/64	39 157.5	....	....	......	....	.....	......	......	Observation well; hydrograph included in this report.
6cbb	995	1952	1,230	20	1,230	225	1,215	10/52 12/63	80 136	7/64	2,500	38	66	L2	......	X	
9abd	1,009	1947	614	16	614	450	600	9/47	52	....	....	......	....	L2			
9bbb1 ...	1,008	1919	345	18, 16	327	120	321	3/19	48	3/19	1,170	80	15	L	......	X	Capped.
9bbb2 ...	1,008	1946	500	20	500	144	488	8/46 2/64	57 142	....	....	......	....	L2	......	X	
10aaa ...	1,029	1940	650	20, 16	650	150	650	8/40 2/62	48 136.9	8/40	3,200	25	128	L2	......	......	
10ccc1 ..	1,002	1921	211	18	141	50	190	10/21	34	10/21	2,100	58	36	L	......	X	Unused.
10ccc2 ..	1,002	1953	662	20	650	150	630	4/53 1/64	65 131	4/53 7/64	3,110 1,920	52 45	60 43	L	......	X	
12bbb ...	1,036	1942	622	20	622	80	508	5/46 2/64	94 146	5/46 9/64	2,560 1,800	 50	 36	L2	......	X	
13ada ...	1,022	1959	400	20	366	130	360	2/62	114.6	....	....	......	....	L2	......	......	
14daa ...	1,015	1951	365	20	365	80	365	12/62	137.7	8/62	2,240	10	211	L2	......	......	
16aaa ...	1,002	1940	937	20	900	160	700	7/40 12/62	30 114.3	7/40	3,000	......	....	L2	......	......	
19abb ...	979	1924	151	18	150	50	140	2/24 12/63	26 83	2/24 7/64	4,100 1,740	62 26	66 67	L	......	......	
19dcd1 ..	965	....	100	16	....	......	......	2/64	61.4	7/51	1,830	......	....	.....	......	......	Observation well; hydrograph included in this report.
19dcd2 ..	965	1959	525	16	297	258	294	5/59	54	8/62	1,010	......	....	L2	......	......	

Table 1.--Records of selected wells in western Salt River Valley——Continued

Location	Land-surface altitude (feet above mean sea level)	Date completed (year)	Depth of well (feet)	Diameter of casing (inches)	Depth of casing (feet)	Perforated interval (feet below land surface)		Water level		Yield		Drawdown (feet)	Specific capacity (gallons per minute per foot of drawdown)	Well logs	Well cuttings	Chemical analysis	Remarks
						From	To	Date (month, year)	Feet below land surface	Date (month, year)	Gallons per minute						
(A-1-1)21ddd1 ..	985	1929	150	20	....	50	140	6/29	33	6/29	2,750	48	57	L	......	......	Capped.
21ddd2 ..	985	1946	584	20	584	192	572	11/46 12/63	37 80	4/51 7/64	2,960 2,450	27 34	110 72	L2	......	......	
24aac ...	1,012	1949	586	20	586	225	560	7/49 6/64	70 115	1/51 6/64	3,550 2,860	15 16	237 183	L2	......	......	
26aaa ...	996	1947	521	20	....	260	505	11/47 1/65	32 72.2	11/47 8/62	2,500 1,580	113 94	22 17	L2	......	......	
28bcb ...	980	1947	400	20	400	202	382	10/47 2/64	38 69.0	10/47	1,960	25	78	L2	......	......	
32aaa ...	960	1949	330	24	306	168	294	4/49 2/62	20 81	....	....	......	....	L2	......	......	
35dcd1 ..	982	1936	178	....	178	40	178	12/36	16	4/36	4,080	37	110	L	......	X	Destroyed.
35dcd2 ..	982	1952	500	20	500	220	500	....	....	7/64	3,760	......	....	.....	......	X	Pumping-test data available.
36dda ...	993	1944	260	....	....	......	....	2/57 2/64	44.4 50.4	....	....	......	....	.....	......	......	Observation well; hydrograph included in this report.
(A-2-1)1dda	1,131	1949	642	20	642	210	630	8/49 2/62	82 216.8	8/49	2,360	40	59	L2	......	......	
2ddd1 ...	1,114	1928 1950	200 380	20 16	200 378	50 195	190 375	12/28 7/50	16 80	12/28	1,940	102	19	L L	....	X	 Deepened and destroyed.
2ddd2 ...	1,114	1962	1,900	20, 16, 14, 12	1,900	380	1,900	12/63	232	7/64	1,330	70	19	L2	X	X	Pumping-test data available.
4bba1 ...	1,084	1922	224	18	....	50	205	5/28	21	1/22	2,240	......	....	L	......	......	Destroyed.
4bba2 ...	1,084	1951	800	20	800	140	780	9/51 1/64	80 160	9/52 9/64	2,240 1,170	70 57	32 21	L2	......	......	
4ddd2 ...	1,077	1952	800	20	800	145	784	3/52 1/59	110 158.3	9/52 9/64	2,400 900	68	35	L2	......	......	
5bab	1,095	1960	614	20	614	250	605	1960	160	6/60	1,290	86	15	L2	......	......	
8caa1 ...	1,052	....	....	....	....	......	....	11/30	35	8/29	1,080	......	....	.....	......	......	Replaced.
8caa2 ...	1,052	1943	1,000	16	1,000	60	988	1/44 1/64	42 178	6/44	2,390	44	55	L2	......	......	
8cdd1 ...	1,046	1922	207	10	....	55	192	5/28	17	8/29	1,210	33	37	L	......	......	Do.
8cdd2 ...	1,046	1951	800	20	800	160	780	1/52 2/64	98 191	9/52 9/64	1,500 1,030	39 57	38 18	L	......	X	Hydrograph included in this report.
8ddd	1,056	1951	600	20	590	195	590	7/51 1/64	111 182.5	7/51 7/64	3,470 2,440	48 106	72 24	L	......	X	
9ddd1 ...	1,066	1919	240	18	....	60	192	7/19	44	7/19	1,190	73	16	L	......	......	
9ddd2 ...	1,066	1947	550	20	550	150	538	2/47 1/64	43 178.0	4/50 7/64	3,050 2,020	41 94	74 21	L2	......	X	

Table 1. --Records of selected wells in western Salt River Valley——Continued

Location	Land-surface altitude (feet above mean sea level)	Date completed (year)	Depth of well (feet)	Diameter of casing (inches)	Depth of casing (feet)	Perforated interval (feet below land surface)		Water level		Yield		Drawdown (feet)	Specific capacity (gallons per minute per foot of drawdown)	Well logs	Well cuttings	Chemical analysis	Remarks
						From	To	Date (month, year)	Feet below land surface	Date (month, year)	Gallons per minute						
(A-2-1)11ddd1 ..	1,102	1929	220	20	220	50	210	4/29	16	4/29	1,740	103	17	L	......	X	
11ddd2 ..	1,102	1959	1,000	20	1,000	350	985	12/62	207.6	7/64	1,740	......	....	L2	X	X	
13ccc ...	1,095	1953	800	20	800	300	780	5/53 12/62	143 222.8	5/53 7/64	2,250 1,710	60	38	L2	......	X	
14bbb1 ..	1,085	....	65	6	....	......	......	3/46	45.4	....	....	......	....	.....	......	......	
14bbb2 ..	1,085	1949	700	20	700	180	685	2/49 12/62	75 199.4	7/64	1,700	......	....	L2	......	......	Pumping-test data available.
14bdd ...	1,090	1951	1,600	20, 16	1,596	252	1,596	....	....	10/51	3,100	......	....	L2	......	......	
14ccc ...	1,077	1949	700	20	700	115	685	3/49 12/63	78 210	6/49 7/64	2,370 1,550	37 87	64 18	L	......	X	
15abb ...	1,073	1949	540	20	540	185	520	7/49 12/62	81 180.8	7/49 7/64	2,750 1,460	55 75	50 19	L	......	......	
15cbb ...	1,061	1947	500	20	500	155	488	1/47 1/62	47 235	7/64	1,550	......	....	L2	......	X	
17ddd1 ..	1,044	1919	232	18	213	60	210	7/19	54	7/19	680	72	9	L	......	X	Destroyed.
17ddd2 ..	1,044	1947	550	20	550	150	538	1/47 1/64	57 195.3	7/64	770	47	16	L2	......	X	
18aaa ...	1,041	1939	470	20	470	90	456	9/47 2/64	70 187.1	....	....	......	....	L2	......	......	
20ccc1 ..	1,022	....	203	24	188	60	188	5/28	14	8/32	2,780	6	465	L	......	......	
20ccc2 ..	1,022	1947	696	24	696	100	680	1/47 2/64	64 190	9/47 9/64	5,390 2,060	44 48	122 43	L2	......	X	
20daa ...	1,037	1950	500	20	500	150	485	8/50 2/62	105 182.7	11/50 7/64	2,800 2,370	52	54	L	......	X	
20ddd1 ..	1,032	1919	242	18	....	60	224	1919	9	....	....	......	....	.....	......	X	Do.
20ddd2 ..	1,032	1946	560	20	560	150	548	10/46	64	....	....	......	....	L2	......	X	
23ccc ...	1,066	1949	700	20	700	180	685	5/49	80	7/64	1,200	......	....	.....	......	X	
23dda ...	1,082	1949	700	20	702	180	685	5/49	77	7/64	1,270	......	....	L2	......	X	
26daa ...	1,074	1949	701	20	701	170	680	5/49	80	7/64	2,260	......	....	L2	......	X	
28aaa ...	1,046	1947	525	20	525	160	512	3/47 1/63	59 192.6	4/50 7/64	2,300 970	32	72	L2	......	X	
29caa1 ..	1,023	1929	156	29	156	25	145	7/29	30	5/31	4,880	27	180	.....	......	......	
29caa2 ..	1,023	1951	800	20	800	112	780	3/51 1/64	102 188.5	3/51 9/64	2,700 1,080	51 47	53 23	L2	......	X	
30caa1 ..	1,013	1929	162	20	149	17	149	3/30	27	7/31	3,470	30	117	L	......	......	Replaced.

Table 1. --Records of selected wells in western Salt River Valley——Continued

Location	Land-surface altitude (feet above mean sea level)	Date completed (year)	Depth of well (feet)	Diameter of casing (inches)	Depth of casing (feet)	Perforated interval (feet below land surface)		Water level		Yield		Drawdown (feet)	Specific capacity (gallons per minute per foot of drawdown)	Well logs	Well cuttings	Chemical analysis	Remarks
						From	To	Date (month, year)	Feet below land surface	Date (month, year)	Gallons per minute						
(A-2-1)30caa2 ..	1, 013	1951	800	20	800	126	780	1/51	100	9/51	3, 370	48	69	L2	.....	X	
								1/64	180	9/64	1, 570	65	24				
30ddd1 ..	1, 017	1922	206	18	205	50	190	3/22	59	3/22	1, 010	84	12	L	.....	X	
30ddd2 ..	1, 017	1947	630	20	630	170	618	4/47	78	6/47	3, 220	40	80	L	.....	X	
								3/64	184	7/64	2, 110	42	50				
31daa ...	1, 018	1940	413	20	413	200	413	7/40	58	7/40	3, 500	30	120	L2	.....	....	
32dab1 ..	1, 024	1928	185	20	185	45	170	5/28	13	5/31	3, 070	21	149	L	.....	....	Abandoned.
32dab2 ..	1, 024	1951	775	20	775	140	750	5/51	103	5/51	3, 140	53	59	L2	.....	....	
								1/64	188. 5	9/64	1, 350	31	43				
33acc1 ..	1, 028	....	....	....	....	....	......	11/29	30	5/31	2, 540	29	89	......	.....	....	
33acc2 ..	1, 028	1943	1, 000	20	1, 000	65	986	5/46	101	5/46	3, 480	....	....	L2	.....	....	Pumping-test data available.
								1/64	175. 5								
33ccc ...	1, 022	1964	875	20	1, 610	250	875	1/65	181. 3	1/65	3, 000	24	124	L	.....	....	Drilled to 1, 725 feet and backfilled to 875 feet.
35ddd ...	1, 051	1949	700	20	700	170	686	4/49	80	4/49	3, 120	23	136	L2	.....	X	
								1/64	184. 4	7/64	2, 650	49	54				
36dad ...	1, 062	1949	700	20	700	180	685	5/49	79	7/64	3, 340	....	....	L2	.....	X	
(A-3-1)2bbb1 ...	1, 203	1945	428	20	428	....	......	....	....	....	....	....	....	......	.....	....	
2bbb2 ...	1, 203	1960	825	20	825	370	800	12/60	270	....	....	....	....	L2	.....	....	
								1/63	312. 0								
4baa1 ...	1, 202	....	225	....	....	....	......	....	....	....	....	....	....	......	.....	....	Destroyed.
4baa2 ...	1, 202	1947	626	20	626	240	600	1/47	136	3/53	2, 220	82	27	L2	.....	....	
		1957	1, 000	16	1, 000	....	......	1/57	255. 5	6/57	2, 100	61	35	......	.....	....	Deepened.
								1/65	325. 6	7/64	1, 480						
4dbb1 ...	1, 194	....	233	18	233	82	133	....	....	....	....	....	....	L	.....	....	Destroyed.
4dbb2 ...	1, 194	1950	910	20	906	360	894	12/50	170	3/55	2, 270	73	31	L2	.....	....	
										7/64	1, 600						
5bcd	1, 195	....	458	20	458	173	426	3/30	103	3/30	1, 400	....	....	L	.....	....	
		1960	1, 000	....	....	....	......	1/65	316. 5	....	....	....	....	......	.....	....	Deepened.
8baa	1, 182	1948	760	20	760	180	745	1/48	140	7/64	1, 820	....	....	L2	.....	....	
								1/63	287. 2								
12add ...	1, 214	1940	460	20	460	150	440	12/40	82	7/41	2, 060	48	43	L2	.....	....	
								1/60	245	7/64	560						
13dda1 ..	1, 188	1940	440	20	440	120	430	11/40	72	....	....	....	....	L	.....	X	
13dda2 ..	1, 188	1959	1, 000	20	1, 000	500	988	1/60	210	7/63	2, 150	....	....	L2	.....	X	
16aba1 ..	1, 151	1919	200	18	....	....	......	7/46	90	....	....	....	....	......	.....	....	
16aba2 ..	1, 151	1951	702	20	702	200	685	9/51	128	....	....	....	....	L2	.....	....	

Table 1.--Records of selected wells in western Salt River Valley—Continued

Location	Land-surface altitude (feet above mean sea level)	Date completed (year)	Depth of well (feet)	Diameter of casing (inches)	Depth of casing (feet)	Perforated interval (feet below land surface)		Water level		Yield		Drawdown (feet)	Specific capacity (gallons per minute per foot of drawdown)	Well logs	Well cuttings	Chemical analysis	Remarks
						From	To	Date (month, year)	Feet below land surface	Date (month, year)	Gallons per minute						
(A-3-1)17abb1 ..	1,159	1919	230	18	223	80	130	12/19	62	....	....	......	....	L	......	......	Destroyed.
17abb2 ..	1,159	1953	1,000	20	1,000	350	984	5/53 1/64	155 250.5	5/53 7/64	2,850 2,120	252 100	11 21	L2	......	......	
18acb1 ..	1,150	1918	247	24	....	83	95	3/18	55	3/18	1,050	......	....	L	......	......	Do.
18acb2 ..	1,150	1945	634	20	634	270	622	1/45 1/63	120 250.8	....	....	......	....	L2			
19acb ...	1,133	1948	750	20	750	280	735	3/48 1/63	108 232.0	....	....	......	....	L2	......	......	
20ddb ...	1,126	1945	602	20	602	125	592	4/45	73	....	....	......	....	L2	......	......	
21ada ...	1,134	1951	785	20	764	180	750	11/51	87	1/52 7/64	3,050 1,640	94	32	L2	X	X	Pumping-test data available.
23aaa ...	1,167	1947	620	20	545	115	530	2/47	85	....	....	......	....	L2	......	......	
26ddd ...	1,137	1940	414	20	414	110	400	11/40 1/64	40 202.3	11/40 8/60	2,590 1,070	139 102	19 10	L	......	......	
27ccc ...	1,111	1919	453	18	453	60	432	5/19 1/64	10 148.4	1/50 7/63	890 670	35	25	L	......	X	
34ddd1 ..	1,100	....	277	18	....	50	215	5/28	23	8/29	2,830	50	57	L	......	......	Abandoned.
34ddd2 ..	1,100	1951	800	20	800	150	780	1/52 1/64	79 175.4	9/52 9/64	2,380 1,190	61 61	39 19	L2	......	......	
35baa ...	1,128	1946	217	6	....	......	....	3/54 2/64	54.5 180	....	....	......	....	L	X	......	Observation well; hydrograph included in this report.
36ddd ...	1,140	1951	600	20	600	194	600	5/51 1/64	90 225.6	5/51 7/64	2,330 1,610	64 53	36 30	L	......	......	
(A-4-1)4bbb	1,373	....	300	8	....	......	....	....	240	....	20-30	......	....	.....	......	X	Domestic and stock well.
10daa ...	1,330	....	632	20	....	210	628	4/46	174	....	....	......	....	L2	......	......	
13cbb ...	1,298	1951	890	20, 16	832	86 286	126 832	6/51	250	....	....	......	....	L2	......	......	
27aaa ...	1,255	1954	1,036	20	880	360	865	4/54	275	....	....	......	....	L2	......	......	
29aaa ...	1,248	1948 1955	728 1,000	20 16	728 1,000	295 718	715 1,000	1/48 1/63	152 353.3	1953 7/64	1,070 1,110	....	....	L2	....	....	Deepened.
31ada ...	1,223	1949	770	20	770	265	750	6/49	190	....	....	......	....	L2	......	......	
33bbb ...	1,223	1946 1956	600 1,000	20 16	600 1,000	210 600	580 988	3/46	145	3/53 7/64	900 1,240	....	....	L2	....	....	Do.
34bba ...	1,225	....	450	20	450	150	450	1/48 2/64	160 361.9	1/48	2,500	30	83	.....	......	......	Observation well; hydrograph included in this report.
36bbb ...	1,231	1950	598	20	598	245	580	2/50 1/64	174 355	....	....	......	....	L2	......	......	

Table 1.--Records of selected wells in western Salt River Valley—Continued

Location	Land-surface altitude (feet above mean sea level)	Date completed (year)	Depth of well (feet)	Diameter of casing (inches)	Depth of casing (feet)	Perforated interval (feet below land surface)		Water level		Yield		Drawdown (feet)	Specific capacity (gallons per minute per foot of drawdown)	Well logs	Well cuttings	Chemical analysis	Remarks
						From	To	Date (month, year)	Feet below land surface	Date (month, year)	Gallons per minute						
(B-1-1)2bbb	994	1947	800	20	650	150	650	12/47 1/64	60 137	9/48 9/64	2,240 1,620	62 68	37 24	L2	......	......	
4aab	991	1948	702	20	702	140	684	1/54 1/64	92 134.0	11/48 9/64	2,710 1,770	32 67	85 26	L2	......	X	
7aba1 ...	993	1937	290	20	290	48	280	3/37	48	3/37	1,900	......	....	L	......	......	
7aba2 ...	993	1950	990	20	990	200	970	12/50 1/64	90 134	9/53 9/64	2,240 1,350	82 68	28 20	L2	......	X	
7caa1 ...	983	1937	277	20	272	48	262	2/37	48	2/37	1,790	......	....	L	......	......	Capped.
7caa2 ...	983	1950	1,190	20, 14	1,190	200 856	830 1,180	12/50 1/64	85 132	9/52 9/63	1,350 1,350	88 84	15 16	L2	......	X	
9dab	980	1925	218	26	218	53	175	1/25 1/64	37 114	6/40 5/64	1,280 960	23 79	54 12	L	......	X	
10aaa1 ..	983	....	210	20	192	70	200	12/35	31	8/30	1,840	......	....	L	......	X	Do.
10aaa2 ..	983	1956	900	20	900	100	886	1/56 1/64	87 117.1	9/57 9/63	2,360 2,100	42 40	56 53	L2	......	X	Observation well; hydrograph included in this report.
16acd1 ..	958	1952	1,800	30, 16	1,800	1,200	1,800	9/52	62	9/52	2,000	169	12	L2	......	......	Abandoned.
16acd2 ..	958	1959	480	16	....	170 250	205 300	1/59	72	....	....	......	....	L	......	......	
17aaa1 ..	976	1937	221	20	221	45	218	5/37	42	9/38	2,240	70	32	.....	......	......	Do.
17aaa2 ..	976	1948	462	20	462	253	452	4/48 1/64	53 109.1	....	....	......	....	L2	......	X	
18baa ...	974	1963	1,663	18, 16	1,655	310 1,220	370 1,655	....	....	....	....	......	....	L	X	......	Pumping-test data available.
24abb ...	976	1951	280	20	280	140	255	7/51 1/64	60 86.1	....	....	......	....	L2	......	......	
28baa1 ..	930	....	102	20	102	45	92	1/48	17	1/48	1,100	......	....	.....	......	......	
28baa2 ..	930	1960	350	16	319	......	......	....	....	....	....	......	....	L2	......	......	
31daa ...	906	1951	104	20	102	45	96	6/51	11	....	....	......	....	L2	......	......	
34dcd1 ..	925	....	50	16	50	......	......	10/50	12	....	....	......	....	.....	......	......	
34dcd2 ..	925	1951	185	20	90	50	80	8/51 1/64	18 37.9	8/51	2,690	......	....	L2	......	......	
(B-1-2)1baa	1,012	1951	648	20	648	155	630	2/51 1/64	101 175.8	6/64	1,520	125	12	L2	......	......	
1cbb	1,004	1920	315	26	315	110	290	1/20 1/64	66 135.2	6/40 6/55	1,180 630	24 44	48 14	L	......	X	Observation well; hydrograph included in this report.
1ccc	991	1964	1,902	18, 16	1,902	1,220 1,620	1,500 1,900	8/64	259.0	4/64	3,020	189	16	L	X	......	Pumping-test data available.

Table 1.--Records of selected wells in western Salt River Valley——Continued

Location	Land-surface altitude (feet above mean sea level)	Date completed (year)	Depth of well (feet)	Diameter of casing (inches)	Depth of casing (feet)	Perforated interval (feet below land surface)		Water level		Yield		Drawdown (feet)	Specific capacity (gallons per minute per foot of drawdown)	Well logs	Well cuttings	Chemical analysis	Remarks
						From	To	Date (month, year)	Feet below land surface	Date (month, year)	Gallons per minute						
(B-1-2)2ccc1 ...	1, 000	1937	381	20	381	......	......	2/37	60	2/37	1, 800	......	....	L	......	......	
2ccc2 ...	1, 000	1944	764	20	764	100	750	7/44	85	....	....	......	....	L	......	......	
2ccc3 ...	1, 000	1963	1, 800	18, 16	1, 800	400	1, 800	9/63	233. 0	....	....	......	....	L	X	......	Pumping-test data available.
3dcc	1, 030	1963	1, 800	18, 16	1, 800	990 1, 550 1, 710	1, 450 1, 690 1, 760	10/63 1/64	200 193	10/63	3, 500	......	....	L	X	......	Do.
8abb1 ...	1, 035	....	862	20	....	......	......	6/46	142	....	....	......	....	.....	......	......	
8abb2 ...	1, 035	1950 1953	400 920	24, 16 16	400 920	 180	 910	5/50 2/62	153 187. 3	.... 5/53	.... 1, 600	....	....	L L2	....	....	 Deepened.
8dda1 ...	1, 000	1937	306	20	305	......	......	1937	60	9/38	1, 910	40	48	L	......	X	
8dda2 ...	1, 000	1963	1, 690	18, 16	1, 690	880 1, 640	1, 600 1, 690	11/63	189. 0	11/63	3, 000	201	15	L	X	......	Pumping-test data available.
9ada1 ...	1, 000	1937	258	20	258	......	......	3/37	55	9/38	1, 570	73	22	L	......	X	
9ada2 ...	1, 000	1964	1, 445	20	1, 062	350 850	770 1, 062	10/64	128	....	....	......	....	L2	X	......	Do.
11baa ...	995	1948	1, 004	20, 10	1, 004	220	1, 000	6/48 1/64	70 148. 2	6/48	2, 320	126	18	L2	......	......	
13adc ...	961	1929	155	20	155	40	130	4/30 1/64	50 86. 7	8/35 9/53	1, 980 1, 480	36 74	55 20	L	......	......	Observation well; capped; hydrograph included in this report.
13dcd ...	951	1948	1, 176	20	1, 123	150	1, 123	1/48 1/64	48 118	9/49 9/64	2, 690 2, 020	45 41	60 49	L2	......	......	
16bbb ...	987	1948	1, 008	20	1, 008	700	998	8/48 1/64	119 175. 9	8/48 8/62	1, 570 860	78	20	L2	......	X	
17bbc ...	993	1951	300	20	300	140	285	1/51 9/64	90 172	9/52 9/64	1, 280 1, 400	74 68	17 21	L2	......	X	
17cbb ...	985	1964	1, 464	18, 16	1, 450	220 604	316 1, 450	4/64	175. 1	....	....	......	....	L	X	......	Pumping-test data available.
18cbb ...	990	1951	320	20	320	170	312	2/51 1/64	110 163. 8	9/52 9/64	1, 320 580	60 42	22 14	L2	......	......	
19aaa ...	967	1937	206	20	206	......	......	11/37 1/64	93 132	9/38 9/60	2, 530 1, 120	26 44	97 26	.....	......	......	
21dca1 ..	918	1930	169	20	....	......	......	8/48	53	....	....	......	....	.....	......	......	
21dca2 ..	918	1962	340	20	340	......	......	8/62	93. 3	....	....	......	....	.....	......	......	Abandoned.
21dca3 ..	918	1962	900	20, 16	900	600	900	....	....	9/62	950	......	....	L	X	......	Pumping-test data available.
22dbb ...	923	1952	265	20	265	145	265	1/52 12/62	49 92. 7	1/52	900	10	90	L2	......	......	
26bdc ...	897	1947	204	20	204	55 140	90 200	8/47	19	8/47	3, 390	49	69	.....	......	......	
	897	1962	925	16	631	200	625	1/64	76	5/64	2, 800	27	103	L2	......	......	Deepened.

Table 1.--Records of selected wells in western Salt River Valley—Continued

Location	Land-surface altitude (feet above mean sea level)	Date completed (year)	Depth of well (feet)	Diameter of casing (inches)	Depth of casing (feet)	Perforated interval (feet below land surface)		Water level		Yield		Drawdown (feet)	Specific capacity (gallons per minute per foot of drawdown)	Well logs	Well cuttings	Chemical analysis	Remarks
						From	To	Date (month, year)	Feet below land surface	Date (month, year)	Gallons per minute						
(B-1-2)28dbb ...	892	1947	236	20	236	59	160	9/47 1/64	18 68	9/47 5/64	3,470 2,240	47 96	73 23	L2	......	......	
29cdd ...	888	1951	172	20	150	45	145	9/51 1/64	38 63	9/51 5/64	3,320 1,400	11 25	302 56	L	......	......	Hydrograph included in this report.
31cba ...	872	....	949	20	....	148	928	1/48	40	....	....	......	....	L2	......	......	
34abb ...	890	1949 1962	170 612	20	170	60 180	150 590	7/49 1/64	27 70	7/49 3/63	3,640 3,250	45 30	81 108	L L2	....	....	Deepened.
36bcb ...	891	1951	180	20	168	35	164	9/51 1/64	19 69.3	....	....	......	....	L2	......	......	
(B-2-1)1ccc	1,063	1960	596	12, 8	596	360	588	1960	202	....	....	......	....	L2	......	......	
2aba	1,080	1937	368	20	293	70	276	3/46 1/64	106 253.7	3/46 6/60	1,160 770	18 59	64 13	L	......	X	Observation well; hydrograph and well-production history included in this report.
2bbb	1,087	1950	866	20	866	235	840	11/50 1/64	148 286	3/51	2,370	21	113	L2	......	X	Casing collapsed at 242 and 392 feet.
2bbc1 ...	1,087	....	265	20	266	209	248	1/37	51	6/41	1,940	18	111	L	......	......	Casing collapsed at 436 feet; replaced.
2bbc2 ...	1,087	1957	772	20	770	295	744	1/64	276	6/64	1,350	136	10	L	......	X	
2bbd1 ...	1,086	1936	294	20	294	120	240	11/36	102	11/36	2,140	11	195	L	......	......	Abandoned.
2bbd2 ...	1,086	1953	926	20	926	260	900	....	....	9/64	1,360	153	9	L	......	X	Casing collapsed at 368 and 400 feet.
4dad1 ...	1,087	1941	501	18, 14	500	236	499	6/51 6/65	150 278	6/51 6/65	850 670	12 82	71 8	.....	......	......	Compaction well.
5abc	1,108	1960	1,000	16	1,000	362 407 442 477 492 582 607 617	392 412 452 482 497 597 612 622	9/60	284	9/60	1,500	69	22	L2	X	......	Casing collapsed at 581 and 583 feet; compaction well; pumping-test data available.
6dbb1 ...	1,117	 1955	302 402	20 10	302 388	150	291	2/40	102	....	....	....	....	L L	....	....	
6dbb2 ...	1,117	1950	1,010	20	1,010	342	990	12/50 1/60	190 295	2/51 10/60	2,000 1,150	20 27	101 43	L	......	......	Compaction well.
6dbb3 ...	1,117	1961	715	16	715	405	360	1/64	336	....	....	......	....	L	......	......	
7abb	1,105	1946	700	20	700	200	684	2/46 1/64	128 317	....	....	......	....	L2	......	X	
7bbb1 ...	1,112	1917	312	16	312	100	190	3/17	87	6/41	1,870	26	71	L	......	......	Destroyed.
7bbb2 ...	1,112	1946	746	20	746	255	728	12/46 2/64	147 338.7	3/47 8/62	2,170 1,150	13 78	167 15	L	......	......	

Table 1. --Records of selected wells in western Salt River Valley—Continued

Location	Land-surface altitude (feet above mean sea level)	Date completed (year)	Depth of well (feet)	Diameter of casing (inches)	Depth of casing (feet)	Perforated interval (feet below land surface)		Water level		Yield		Drawdown (feet)	Specific capacity (gallons per minute per foot of drawdown)	Well logs	Well cuttings	Chemical analysis	Remarks
						From	To	Date (month, year)	Feet below land surface	Date (month, year)	Gallons per minute						
(B-2-1)8dba1 ...	1,077	....	900	6	....	......	......	....	....	....	....	......	....	L	......	X	Destroyed.
8dba2 ...	1,077	1952	578	20	578	498	538	3/52 1/64	165 279	8/64	1,170	111	10	L2	......	X	Casing collapse reported.
9bcb	1,080	1960	1,200	12	....	535 564 907 969	561 572 924 977	2/60	237.8	....	....	......	....	.....	X	......	Pumping-test data available; casing collapse reported.
10bba ...	1,085	1946	506	20	506	140	492	10/46 2/64	97 276.4	....	....	......	....	L2	......	......	
12bdb ...	1,046	1948	992	20	992	170	670	9/48 1/64	78 254	3/49 9/64	2,020 920	126 196	16 5	L	......	X	
14cbb ...	1,057	1960	708	12	708	145	690	12/60 1/64	145.2 169.1	....	....	......	....	L	......	......	Observation well; hydrograph included in this report.
14dbb1 ..	1,044	1917	124	26	124	55 104	102 115	1917	30	....	....	......	....	L	......	......	Destroyed.
14dbb2 ..	1,044	1948	720	20	720	160	704	11/48 1/64	92 298	7/64	950	173	5	L2	......	......	
16ddd ...	1,090	1929	460	20	....	......	......	3/29	139	....	....	......	....	L2	......	......	Do.
18bbb1 ..	1,089	1937	305	20	302	110	293	1/37	83	8/41	1,140	16	71	L	......	X	
18bbb2 ..	1,089	1951	1,120	20	1,120	400	1,093	10/51 1/64	186 321	7/52 10/62	2,290 1,890	30 13	76 145	L	......	X	
19aab1 ..	1,057	1920	280	26, 16	275	75 100	90 255	1/25	74	6/40	1,140	16	72	L	......	X	
19aab2 ..	1,057	1957	722	20	722	320	566	12/57 1/64	233 316	2/58 7/64	2,020 1,680	68 132	30 13	L	......	X	
19cbb1 ..	1,057	....	320	26	320	80	295	1/21	69	6/40	1,360	21	65	L	......	......	Do.
19cbb2 ..	1,057	1949	966	20	966	180	948	3/49 1/64	133 306	5/49 7/64	2,770 1,720	28 67	100 26	L2	......	X	
19dbb1 ..	1,048	1920	345	26, 16	341	110	325	10/20	60	5/27	1,660	15	111	L	......	X	Do.
19dbb2 ..	1,048	1958	627	20	627	275	597	10/58 1/64	239 298	11/58 7/64	1,670 1,250	105 81	16 15	L	......	X	
20bba ...	1,053	1949	752	20	....	150	730	3/49 1/63	120 285	5/49 8/62	2,400 630	67 151	36 4	L2	......	X	
21abb ...	1,065	1962	1,452	20, 12	998	110 397 526	354 421 537	5/62	105	....	....	......	....	L2	X	......	
21ccb1 ..	1,036	1919	200	26, 16	185	152	172	1919	56	6/27	1,550	23	68	.....	......	X	
21ccb2 ..	1,036	1957 1963	740 1,990	20 12	740 1,990	256 974	600 1,572	6/57	161	9/57 6/64	860 1,160	60 182	14 6	..... L2	 X	....	Deepened.

Table 1. --Records of selected wells in western Salt River Valley——Continued

Location	Land-surface altitude (feet above mean sea level)	Date completed (year)	Depth of well (feet)	Diameter of casing (inches)	Depth of casing (feet)	Perforated interval (feet below land surface)		Water level		Yield		Draw-down (feet)	Specific capacity (gallons per minute per foot of drawdown)	Well logs	Well cut-tings	Chem-ical anal-ysis	Remarks
						From	To	Date (month, year)	Feet below land surface	Date (month, year)	Gallons per minute						
(B-2-1)23dcc ...	1,029	1941	502	20	502	90	487	3/41 1/64	88 207	3/41 8/64	2,510 1,360	22 48	116 28	L	......	X	
24ccb ...	1,018	1946	460	20	....	85	450	9/46 12/62	67 179.3	....	....	......	....	L2	......	......	
27cbc ...	1,008	1952	902	20	902	180	876	1/52 1/64	95 170	4/52 7/64	2,300 1,370	68 38	34 37	L2	......	X	
28dcb1 ..	1,009	1917	274	26, 16	274	103 249	237 260	1/19	38	6/27	1,340	12	108	L	......	X	Abandoned.
28dcb2 ..	1,009	1962	593	16	593	185	560	8/62 1/64	194 155	8/62 6/64	1,070 1,670	55 40	20 42	L	X	......	Hydrograph included in this report.
30caa1 ..	1,033	....	....	....	....	......	......	1/19	52	....	....	......	....	.....	......	......	
30caa2 ..	1,033	1941	564	....	....	105	550	3/41	77	8/41	1,710	22	78	L	......	X	
30caa3 ..	1,033	1964	1,000	16	1,000	400	968	12/64	255	7/64	960	135	7	L2	......	......	
31caa1 ..	1,018	1919	150	26	150	91	130	1/19	55	6/40	1,280	19	66	.....	......	......	Replaced.
31caa2 ..	1,018	1946	470	20	470	150	452	1/46 1/64	90 193	6/46 7/64	1,420 1,400	28 148	51 9	L2	......	X	
32abb ...	1,011	1939	288	20	278	150	275	1/39	62	....	....	......	....	L2	......	X	
33bbb1 ..	1,009	1917	....	....	....	......	......	1/19	39	7/40	1,040	8	136	.....	......	......	
33bbb2 ..	1,009	1944	318	20	318	110	278	1/45 2/64	68 152.3	1/45 9/64	1,400 1,260	10 39	140 32	L	......	X	
34aad1 ..	1,003	1919	....	....	....	......	......	1/19	30	....	....	......	....	.....	......	......	
34aad2 ..	1,003	1940	386	20	386	146	362	1/41 1/64	56 153	8/41 8/64	1,680 1,630	42 67	40 24	L	......	X	
36cba1 ..	991	1933	250	....	....	80	250	1933	100	1933	2,000	180	11	.....	......	......	
36cba2 ..	991	1953	650	20	650	142	635	....	....	....	....	......	....	L2	......	......	
(B-2-2)1aba1 ...	1,143	1940	....	....	....	......	......	1/45	161	12/45	1,690	23	73	.....	......	......	
1aba2 ...	1,143	1951	1,058	20	1,058	380	1,045	11/51 1/64	230 379	11/51	1,270	20	63	L2	......	X	
3bbb	1,220	1929	551	20	550	194	540	6/29 1/64	194 400	6/29 6/50	990 480	77 68	13 7	L2	......	X	Abandoned.
4dcb	1,204	1946	480	20	....	......	......	2/46 2/64	203.8 318.9	....	....	......	....	.....	......	......	Observation well; hydrograph included in this report.
5aab	1,260	1960	747	12, 8	747	320	747	3/60	300	....	....	......	....	L2	......	......	
10baa ...	1,170	1929	495	20	495	170	485	11/29 1/64	160 410	11/29 9/64	2,150 760	91 121	24 6	L	......	X	
10ccc ...	1,158	1963	2,290	20, 16, 12	1,859	400 700	670 1,869	....	....	....	....	......	....	L	X	......	Pumping-test data on file.

Table 1.--Records of selected wells in western Salt River Valley—Continued

Location	Land-surface altitude (feet above mean sea level)	Date completed (year)	Depth of well (feet)	Diameter of casing (inches)	Depth of casing (feet)	Perforated interval (feet below land surface)		Water level		Yield		Drawdown (feet)	Specific capacity (gallons per minute per foot of drawdown)	Well logs	Well cuttings	Chemical analysis	Remarks
						From	To	Date (month, year)	Feet below land surface	Date (month, year)	Gallons per minute						
(B-2-2)11baa . . .	1,150	1929	465	20	465	......	....	10/29	144	10/29	2,380	53	45	L	.....	X	
		1959	1,000	16	1,000	265	980	1/64	396	9/64	1,080	51	22	.....	.....	X	Deepened.
13abb . . .	1,098	1948	752	20	752	225	734	5/48	154	7/48	1,730	30	58	L	.....	....	
								1/64	336.6	10/62	1,220	41	30				
14bcc . . .	1,118	1951	980	20	980	355	965	11/51	233	11/51	2,700	30	90	L2	.....	....	
								2/64	374.8								
15aaa . . .	1,132	1939	500	20	500	144	484	1/39	134	1/39	2,780	42	66	L	.....	X	Pumping-test data available.
										9/64	1,070	55	19				
22aaa . . .	1,112	1939	492	20	492	125	280	8/39	135	8/39	2,680	61	44	.....	.....	X	
						340	480	1/64	375	9/64	610	58	11				
24cbb1 . .	1,077	....	330	26	....	115	307	1/20	87	8/41	610	13	49	.....	.....	....	
24cbb2 . .	1,077	1949	788	20	788	180	740	1/64	344	10/64	1,430	64	22	L	.....	X	Compaction well.
24cbb3 . .	1,077	1965	1,007	16	1,000	......	....	....	....	....	....	....	....	L	X	....	
24dbb1 . .	1,066	1920	350	26	350	110	330	1/20	74	10/40	940	14	69	L	.....	....	Replaced.
24dbb2 . .	1,066	1950	956	20	956	194	938	1/50	152	11/50	2,070	44	47	L	.....	X	
								1/64	307.0	7/64	1,470	123	12	L2			
25cbb1 . .	1,055	1919	275	26	257	100	250	1/20	80	1/20	1,190	20	60	L	.....	....	Do.
25cbb2 . .	1,055	1949	706	20	706	180	690	5/49	155	6/49	2,470	46	53	L	.....	X	Well-production history included in this report.
		1961	1,720	12	1,720	1,408	1,419	1/64	318	7/64	1,340	117	11	L	X	....	Deepened.
						1,431	1,438										
						1,459	1,464										
						1,478	1,500										
						1,513	1,573										
						1,602	1,618										
						1,636	1,639										
						1,659	1,679										
25daa1 . .	1,039	1919	250	26	240	65	228	1/19	57	10/40	1,610	27	60	L	.....	....	Replaced.
25daa2 . .	1,039	1949	712	20	712	160	696	1/64	280	10/64	750	90	8	L	.....	X	
27aaa . . .	1,086	1950	800	20	800	290	786	....	....	....	....	....	....	L	.....	....	
		1964	1,602	16	1,600	800	1,588	2/64	333.2	3/64	1,400	73	19	L2	X	....	Deepened.
27baa . . .	1,095	1946	500	20	500	180	488	12/46	174	12/46	2,000	60	33	L	.....	....	Pumping-test data available.
		1960	1,000	16	1,000	500	988	1/64	371	9/64	790	140	6	.....	.....	....	Deepened.
27ccc . . .	1,084	1939	502	20	502	138	488	5/39	128	5/39	2,590	75	34	L	.....	X	
		1956	1,000	16	992	440	980	1/64	345	9/64	560	253	2	.....	.....	X	Do.
35bbb . . .	1,057	1951	900	20	900	280	880	1/51	165	....	....	....	....	L	.....	....	
		1964	1,610	16	1,610	910	1,595	2/64	295	....	....	....	....	L2	X	....	Do.
36bbb1 . .	1,044	1920	350	26, 16	343	107	343	3/36	76	6/36	1,170	30	39	L	.....	....	
36bbb2 . .	1,044	1946	510	20	510	170	460	8/46	121	12/47	1,960	48	41	L	.....	X	Casing collapsed at 263 and 376 feet.
								1/64	285	7/64	1,290	115	11	L			

Table 1.--Records of selected wells in western Salt River Valley—Continued

Location	Land-surface altitude (feet above mean sea level)	Date completed (year)	Depth of well (feet)	Diameter of casing (inches)	Depth of casing (feet)	Perforated interval (feet below land surface)		Water level		Yield		Drawdown (feet)	Specific capacity (gallons per minute per foot of drawdown)	Well logs	Well cuttings	Chemical analysis	Remarks
						From	To	Date (month, year)	Feet below land surface	Date (month, year)	Gallons per minute						
(B-3-1)3bbb	1,205	1946	524	20	524	230	512	11/46 2/62	187 321.2	....	....	......	....	L2	.....	......	
5abb	1,238	1950	803	20	803	275	780	11/50 2/62	237 338.8	11/50	2,990	44	68	L2	.....	......	
6baa	1,258	1939	500	20	500	184	488	9/39	178	9/39	1,730	100	17	L	.....	X	Pumping-test data available.
		1954	1,000	16, 12	996	500	996	1/64	406	9/64	1,140	118	10	.....	.....	X	Deepened.
7abb	1,242	1951	1,025	20, 16	1,025	180	1,025	....	....	10/51	2,100	52	40	L2	.....	......	
10acb ...	1,174	1946	810	20	810	160	810	5/46	140	5/46	3,200	230	14	L2	.....	......	
12bbb ...	1,151	1959	1,000	20	949	365	935	7/59 1/64	265 285.8	....	....	......	....	L2	.....	......	Casing collapse reported.
13dbb1 ..	1,117	....	250	20	....	......	....	....	....	....	....	......	....	.....	.....	......	
13dbb2 ..	1,117	1953	500	20	500	210	486	6/53	127	6/53	1,100	73	15	L2	.....	......	
14bbb1 ..	1,151	1930	390	18	390	......	....	1/48	158	....	....	......	....	.....	.....	......	Do.
14bbb2 ..	1,151	1948	810	20, 16	810	232	810	....	....	4/48	1,800	30	60	L2	.....	......	
17bbb ...	1,214	1950	1,468	20, 16	1,468	225	1,468	11/50 2/62	224 368.4	....	....	......	....	L2	.....	......	
21bbb ...	1,170	1947	502	20	502	200	488	1/47 12/62	195 387.5	....	....	......	....	L2	.....	......	Do.
22bbb1 ..	1,145	1920	190	18	....	......	....	8/32	92	....	....	......	....	.....	.....	......	
22bbb2 ..	1,145	1944	408	20	408	185	392	8/44	131	....	....	......	....	.....	.....	......	Observation well; hydrograph included in this report.
		1956	800	16	800	408	785	10/56 1/65	273 342.4	....	....	......	....	.....	.....	......	Deepened.
23cbb1 ..	1,125	....	210	24	....	85	210	7/46	132	....	....	......	....	L	.....	......	Abandoned.
23cbb2 ..	1,125	1948	550	20	550	200	538	1/48 12/62	135 3.0	....	....	......	....	L2	.....	......	
25bbb ...	1,107	1959	638	20	638	260	630	4/59	220	....	....	......	....	L	.....	......	
		1963	910	16	900	......	....	1/64	256.0	....	....	......	....	L2	X	......	Deepened.
32bab ...	1,137	1958	1,032	20	1,032	400	1,013	1958	285	1958	1,780	111	16	L2	.....	......	Casing collapse reported.
34abb1 ..	1,107	....	350	16	350	170	338	4/47	121	4/47	1,800	20	90	L	.....	......	
34abb2 ..	1,107	1962	975	18	785	375	780	4/62	300	....	....	......	....	L2	X	......	
(B-3-2)1aaa	1,269	1939	600	20	600	209	584	2/39	190	2/39	1,700	82	21	L	.....	X	
		1957	1,000	16	1,000	600	982	1/64	416	9/64	1,080	94	12	L2	.....	X	Deepened.
2baa	1,313	1939	655	20, 16	655	484	645	1/39	203	1/39	1,150	60	19	L	.....	X	Pumping-test data available.
		1947	1,005	14	1,005	655	1,000	....	....	9/64	650	139	5	L	.....	X	Deepened.
10bba ...	1,330	1938	586	20	586	276	564	8/38	222	8/38	1,970	38	52	L	.....	X	
		1957	1,000	16	1,000	586	996	1/64	424	9/64	1,280	124	10	L2	.....	......	Do.

Table 1. --Records of selected wells in western Salt River Valley—Continued

Location	Land-surface altitude (feet above mean sea level)	Date completed (year)	Depth of well (feet)	Diameter of casing (inches)	Depth of casing (feet)	Perforated interval (feet below land surface)		Water level		Yield		Drawdown (feet)	Specific capacity (gallons per minute per foot of drawdown)	Well logs	Well cuttings	Chemical analysis	Remarks
						From	To	Date (month, year)	Feet below land surface	Date (month, year)	Gallons per minute						
(B-3-2)10dcc ...	1,310	1947	500	20	500	270	485	3/47	270	4/49	400	23	17	L	.....	....	Pumping-test data available.
		1954	1,000	16	1,000	500	990	1/54	322	12/54	940	90	10	L	.....	....	Deepened.
		1964	1,533	14	1,495	985	1,470	1/64	430.0	9/64	780	147	5	L	X	....	Do.
11cbb ...	1,292	1951	1,400	20, 16	1,249	......	....	6/51	270	....	....	......	....	L2	.....	....	
12aaa ...	1,252	1938	736	20	736	204	714	8/38	183	8/38	2,430	30	81	L	.....	X	
								1/64	426	6/63	550	70	8				
12baa ...	1,257	1939	500	20	500	200	482	9/39	188	9/39	1,970	65	30	L	.....	X	Pumping-test data available.
		1954	1,000	16	995	500	995	....	....	9/64	920	65	14	L	.....	....	Deepened.
12bcb ...	1,265	1946	756	20	754	295	740	5/46	230	6/57	1,280	72	18	L	.....	....	
		1956	1,100	16	1,100	756	1,090	9/56	361	7/60	1,320	143	9	L2	.....	....	Do.
13baa ...	1,235	1939	500	20	500	184	484	10/39	175	10/39	2,520	32	79	L	.....	X	Pumping-test data available.
		1959	1,000	16	1,000	500	980	1/64	413	9/64	1,010	90	11	L	.....	....	Deepened.
15dbb ...	1,300	1962	2,420	20, 16, 8	2,420	578	2,420	11/62	375.9	2/64	2,020	124	16	L2	X	....	
								2/64	428.5								
21aba ...	1,332	1947	534	20	534	280	412	1/47	272	10/47	300	75	4	L	.....	....	Observation well; hydrograph included in this report.
								1/64	447.1								
22aaa ...	1,268	1939	500	20	500	206	481	3/39	197	3/39	1,720	44	39	L	.....	X	
		1955	1,000	16	1,000	500	990	1/64	433	9/64	890	105	8	L	.....	....	Deepened.
22abb ...	1,284	1951	1,100	20	....	450	1,088	6/51	290	3/54	1,410	......	....	L2	.....	....	
										9/62	980						
23baa ...	1,247	1939	500	20	500	199	484	10/39	184	10/39	1,980	56	35	L2	.....	....	
		1955	1,000	16	1,000	360	992	....	....	9/64	1,030	160	6	.....	.....	....	Do.
24abb ...	1,215	1951	900	20	900	380	880	2/51	267	....	....	......	....	L2	.....	....	
25baa ...	1,198	1939	502	20	502	171	486	11/39	162	11/39	2,580	38	68	L	.....	X	
		1958	1,002	16	1,002	500	990	1/64	414	9/64	690	146	5	L	.....	X	Do.
25bbb ...	1,210	1964	2,567	18, 12	2,567	543	2,567	1/65	425	....	....	......	....	L	X	....	Pumping-test data available.
25dbb ...	1,187	1946	588	20	588	260	575	10/46	203	10/47	2,390	62	38	L	.....	....	
		1955	1,200	16	....	600	1,188	2/56	319	8/56	2,150	99	22	L2	.....	....	Casing collapsed at 450 and 500 feet; deepened.
								2/64	405.4	6/64	1,630	126	13				
27abb ...	1,269	1939	550	20	550	224	534	4/39	208	4/39	2,020	58	35	L	.....	....	Pumping-test data available.
		1960	1,000	16	1,000	500	990	1/64	421	9/64	790	77	10	L	.....	....	Deepened.
34baa ...	1,240	1952	1,320	20, 16, 13	1,320	115	1,320	1/57	319.6	3/52	2,200	......	....	L2	.....	....	
										6/63	1,730						
35bbb ...	1,220	1929	501	20	501	171	486	8/29	183	8/29	2,100	67	31	L	.....	....	
		1955	1,000	16	1,000	360	990	1/64	433	2/63	770	96	8	L	.....	....	Do.
36baa ...	1,175	1939	510	20	510	160	496	11/39	150	11/39	2,960	32	93	L	.....	....	Pumping-test data available.
		1961	1,000	16	1,000	490	970	1/64	397	9/64	1,100	94	11	L	.....	....	Deepened.
(B-4-1)9bcd	1,341	1938	500	20	500	182	484	11/38	180	11/38	800	114	7	L2	.....	....	Observation well; hydrograph included in this report.
								2/64	316.4								

Table 1.--Records of selected wells in western Salt River Valley——Continued

Location	Land-surface altitude (feet above mean sea level)	Date completed (year)	Depth of well (feet)	Diameter of casing (inches)	Depth of casing (feet)	Perforated interval (feet below land surface)		Water level		Yield		Drawdown (feet)	Specific capacity (gallons per minute per foot of drawdown)	Well logs	Well cuttings	Chemical analysis	Remarks
						From	To	Date (month, year)	Feet below land surface	Date (month, year)	Gallons per minute						
(B-4-1)15abb ...	1,296	1951	800	20	436	250	425	10/51	200	10/51	2,100	......	....	L2	.....	......	
								1/64	304.8								
19baa ...	1,322	1939	590	20	590	214	574	3/39	198	3/39	1,830	60	30	L	.....	X	
		1960	1,080	16	1,080	580	1,070	1/64	422	9/64	1,170	82	14	L2	.....	X	Deepened.
20bcb ...	1,307	1939	550	20	550	209	539	4/39	198	4/39	1,600	95	17	L	.....	X	
		1956	1,000	16	982	550	970	1/64	414	9/64	730	47	16	L2	.....	X	Do.
20ccd ...	1,288	1939	577	20	577	200	563	5/39	184	5/39	2,010	70	29	L	.....	X	
		1961	1,195	16	1,170	577	1,170	2/64	424.7	9/64	1,150	25	46	L2	.....	X	Do.
21aaa ...	1,272	1947	500	20	500	185	488	4/47	178	10/47	1,020	46	22	L	.....	......	Pumping-test data available.
										9/64	950						
23bbb ...	1,262	1951	950	20, 16	950	250	622	5/51	185	3/53	1,950	......	....	L2	.....	......	
						634	938	1/65	300.8	7/64	1,310						
27cbb ...	1,238	1951	722	....	....	258	704	7/51	206	8/51	2,100	75	28	L2	.....	......	
										8/62	2,300						
28baa ...	1,257	1938	524	20	524	150	510	8/39	144	8/39	2,400	60	40	L	.....	X	Do.
		1955	1,032	16, 12	1,032	400	900	1/64	376	9/64	1,250	67	19	L	.....	X	Deepened.
29aaa ...	1,268	1939	548	20	548	172	532	4/39	161	4/39	1,940	56	35	L	.....	X	
		1955	1,080	16	1,080	530	1,055	1/64	385	9/64	1,050	92	11	L	.....	X	Do.
30dcd ...	1,275	1939	520	20	520	190	504	8/39	179	8/39	2,120	70	30	L	.....	X	Well-production history included in this report.
		1955	1,025	16	1,025	520	1,000	1/64	420	9/64	1,380	67	21	L	.....	X	Deepened.
32bbc ...	1,261	1951	1,200	20, 16	1,200	350	1,200	5/51	240	....	....	......	....	L2	.....	......	
								1/65	405.9								
(B-4-2)13dcd ...	1,332	1938	500	20	500	150	484	11/38	142	11/38	1,010	80	13	L2	.....	......	
								1/64	395.6								
24bcd ...	1,329	1939	550	20	550	206	536	4/39	194	4/39	950	99	10	L	.....	X	
		1958	1,050	16	1,050	540	1,040	1/64	405	9/64	660	62	11	L2	.....	X	Do.
26dbb ...	1,330	1938	857	20	857	205	840	2/38	199	2/38	1,040	60	17	L2	.....	X	Pumping-test data available.
								1/64	390	9/64	680	170	4				
26ddd ...	1,314	1947	500	20	500	245	485	5/47	217	5/48	380	100	4	L	.....	......	Hydrograph included in this report.
		1954	1,000	16	1,000	500	990	1/64	416	9/64	870	120	7	L	.....	X	Deepened.
27dcd ...	1,332	1938	500	20	500	220	484	12/38	203	12/38	1,000	62	16	L	.....	X	Well-production history included in this report.
		1954	1,000	16	1,000	500	990	1/64	394	9/64	630	160	4	L2	.....	X	Deepened.
35ccc ...	1,312	1947	500	20	500	237	482	6/47	232	10/47	600	62	10	L	.....	X	
		1954	1,005	16	984	504	982	1/64	415	9/64	890	147	6	L2	.....	......	Do.
(B-5-2)35baa ...	1,491	1952	1,155	20, 16	1,155	300	1,155	1952	317	5/52	1,800	73	25	.....	.....	......	
								2/64	354.5								

Table 2.--Selected drillers' logs of wells in western Salt River Valley

	Thickness (feet)	Depth (feet)
(A-1-1)2bbb2		
Red clay	36	36
Clay	40	76
Clay	24	100
Sand and gravel	10	110
Clay	30	140
Sand and gravel	12	152
Clay	8	160
Sand and gravel	14	174
Clay and gravel	6	180
Cemented sand	22	202
Sand and gravel	18	220
Red clay	8	228
Red clay and gravel	42	270
Red clay	55	325
Sand and gravel, some cemented sand	35	360
Sand and gravel	20	380
Clay and gravel	110	490
Cemented sand	20	510
Sand	15	525
Sand and gravel	35	560
Clay and gravel	10	570
Sandy clay	25	595
Red clay	65	660
Sandy clay	35	695
Red clay	105	800
TOTAL DEPTH		800
(A-1-1)3bca		
Topsoil and clay	15	15
Sand and gravel	26	41
Cemented sand	4	45
Sand and gravel	4	49
Caliche and clay	12	61
Sandy clay	28	89
Caliche	6	95
Sand and gravel	6	101
Sandy clay	49	150
Sand and gravel	10	160
Hard sandy clay, some gravel	49	209
Hard sandy clay	16	225
Sandy clay and gravel	7	232
Hard cemented sand	13	245
Hard sandy clay. A little gravel	35	280
Cemented sand and gravel	17	297
Sand and coarse gravel up to 3 inches	6	303
Hard cemented gravel	6	309
Sandy clay and gravel	36	345
Hard sticky clay, little gravel	65	410
Hard sticky clay	13	423
Hard sticky clay	7	430
Hard cemented sand	14	444
Hard sticky clay	3	447
Hard cemented sand	3	450
Hard sticky clay	2	452
Very hard cemented sand	8	460
Hard sticky clay	11	471
Hard cemented sand	12	483
Hard sticky clay	2	485
Hard cemented sand	2	487
Sand and gravel	2	489
Hard cemented sand	12	501
Hard sticky clay	5	506
Cemented sand	8	514
Sandy clay	9	523
Hard sand and gravel	32	555
Sticky clay	43	598
Hard cemented gravel and sand	6	604
Sticky clay	13	617
Hard cemented gravel and sand	4	621
Sticky clay	21	642
Hard cemented sand	3	645
Sticky clay	3	648
Hard cemented sand	2	650
TOTAL DEPTH		650
(A-1-1)6cbb		
Brown clay	12	12
Sand	18	30
Sand and gravel, ½ inch	58	88
Brown clay and gravel	47	135
Cemented sand	24	159
Cemented sand	126	285
Cemented sand	62	347
Brown sandy clay	26	373
Conglomerate	3	376
Brown sticky sand and clay	246	622
Gray sticky clay	3	625
Brown clay	410	1,035
Brown clay with salt streaks	195	1,230
TOTAL DEPTH		1,230
(A-1-1)9abd		
Sandy loam	26	26
Caliche, shell	6	32
Sandy clay	73	105
Sand and small boulders	27	132
Caliche, clay	8	140
Sandy clay, hard streaks	360	500
Hard clay with some soft streaks	114	614
TOTAL DEPTH		614
(A-1-1)9bbb2		
Topsoil	3	3
Clay and caliche	12	15
Sandy clay, some gravel	23	38
Muddy sand and gravel	19	57
Clay, caliche, and some gravel	87	144
Clay, caliche, gravel, and cemented streaks	43	187
Layers of clay, sand, and gravel, ½ inch	23	210
Clay, some coarse sand	30	240
Tough clay (sticky)	25	265
Clay and gravel to ½ inch (soft)	7	272
Clay	12	284
Clay, sand, and fine gravel	8	292
Clay	14	306
Muddy sand, some ¼-inch gravel	18	324
Clay, some sand	44	368
Clay and gravel	12	380
Clay	28	408
Sand and fine gravel	3	411
Clay	89	500
TOTAL DEPTH		500
(A-1-1)10aaa		
Soil	24	24
Cemented clay	8	32
Sandy clay	33	65
Sand and gravel, 2 inches	5	70
Clay and caliche	116	186
Sand and gravel, 2 inches	2	188
Cemented gravel	12	200
Clay, streaks of muddy sand	12	212
Sandy clay and caliche	65	277
Coarse sand and gravel, 8 inches	25	302
Sandy clay	48	350
Sandy clay	50	400
Sticky clay	13	413
Cemented sand	7	420
Sticky clay	3	423
Sandy clay	8	431
Cemented sand	7	438
Hard cemented sand	7	445
Sticky clay	3	448
Hard cemented sand	6	454
Cemented sand and clay	21	475
Sticky clay	4	479
Hard cemented sand	7	486
Cemented sand and clay	33	519
Hard cemented sand	17	536

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(A-1-1)10aaa—Continued		
Sticky clay	18	554
Cemented sand	3	557
Sticky clay	7	564
Sandy clay	11	575
Hard sticky clay	15	590
Sticky clay	8	598
Hard cemented sand	12	610
Sticky clay	35	645
Hard cemented sand	5	650
TOTAL DEPTH		650
(A-1-1)12bbb		
Soil	4	4
Caliche, clay	24	28
Sand and gravel	12	40
Hard clay and gravel	14	54
Cemented sand and gravel	21	75
Fine sand	10	85
Hard clay	17	102
Caliche, clay	38	140
Soft sticky clay	20	160
Hard clay	10	170
Gravel, about 1 inch	4	174
Cemented gravel	18	192
Fine sand and gravel	10	202
Caliche	33	235
Sticky clay	13	248
Boulders	38	286
Hard clay and shells	34	320
Sandstone	60	380
Sandstone and clay	35	415
Gravel, partly cemented	7	422
Hard clay and sandstone	48	470
Gravel, 2 inches, partly cemented	20	490
Hard clay	20	510
Hard clay and sandstone	65	575
Soft clay	20	595
Hard clay and sandstone	27	622
TOTAL DEPTH		622
(A-1-1)13ada		
Top soil	20	20
Sandy clay	20	40
Sand, gravel, and boulders	164	204
Clay	8	212
Sand	23	235
Gravel	12	247
Sand and gravel	13	260
Alternate layers of sand and gravel	33	293
Clay	12	305
Coarse gravel	5	310
Sandy clay	12	322
Packed sand with alternate layers of clay	23	345
Gravel	5	350
Sandy clay	10	360
Clay	7	367
Packed sand	2	369
Clay	31	400
TOTAL DEPTH		400
(A-1-1)14daa		
Surface sand and gravel	80	80
Boulders	20	100
Sand and gravel	40	140
Boulders	20	160
Sand, gravel	20	180
Coarse gravel	20	200
Sand, gravel, and boulders	20	220
Sandy clay	60	280
Sand and gravel	70	350
Sand and clay	15	365
TOTAL DEPTH		365

	Thickness (feet)	Depth (feet)
(A-1-1)16aaa		
Top soil	13	13
Clay and caliche	11	24
Sand and gravel	2	26
Clay and caliche, water level 30 feet	59	85
Gravel and boulders	27	112
Caliche	3	115
Clay and caliche	9	124
Sand and gravel, salt water	5	129
Clay and caliche, some gravel	78	207
Cemented sand and clay, very hard	24	231
Cemented sand and gravel, hard	39	270
Hard sandy clay	20	290
Hard cemented sand and gravel	7	297
Hard sandy clay	124	421
Hard sandy clay, little gravel	88	509
Hard fine cemented sand, little gravel	18	527
Sticky clay	3	530
Hard fine cemented sand	3	533
Very hard sandy clay	60	593
Hard clay and coarse gravel	18	611
Hard clay	16	627
Clay and coarse gravel	6	633
Very hard clay	16	649
Hard clay	8	657
Very hard clay	34	691
Very hard sandy clay	16	707
Hard clay	28	735
Very hard clay	18	753
Hard clay	34	787
Very hard sticky clay	52	839
Hard sticky clay	42	881
Very hard sticky clay	12	893
Very hard sticky clay	44	937
TOTAL DEPTH		937
(A-1-1)19dcd2		
Surface	18	18
Boulders	126	144
Sand	43	187
Sand	31	218
Sand	34	252
Clay	12	264
Sand	16	280
Clay	10	290
Sand	7	297
Clay	41	338
Sand	4	342
Clay	6	348
Sand	3	351
Clay	165	516
Sand	4	520
Clay	5	525
TOTAL DEPTH		525
(A-1-1)21ddd2		
Top soil	5	5
Clay, caliche, some gravel	32	37
Heavy gravel	33	70
Gravel and boulders	22	92
Gravel, some clay	18	110
Gravel and boulders	32	142
Clay	3	145
Gravel and boulders	41	186
Clay and some gravel	6	192
Gravel to 3 inches	36	228
Layers, hard clay-cemented sand	32	260
Clay-caliche and cemented streaks	35	295
Clay, some gravel	45	340
Hard clay	45	385
Sandy clay	10	395
Layers, hard clay and sandy clay	70	465
Clay and some gravel	27	492
Brown clay and streaks blue clay	26	518
Tough brown clay-embedded gravel	37	555
Tough brown clay	29	584
TOTAL DEPTH		584

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(A-1-1)24aac		
Sandy clay	10	10
Caliche	10	20
Sandy clay	10	30
Caliche	10	40
Gravel	120	160
Clay	9	169
Gravel, tight	18	187
Clay and gravel	11	198
Packed sand	17	215
Clay and gravel	20	235
Packed sand	56	291
Gravel, tight	7	298
Clay	82	380
Hard sandy clay	30	410
Soft yellow clay	7	417
Hard brown clay	73	490
Hard silty clay	50	540
Hard clay	46	586
TOTAL DEPTH		586
(A-1-1)26aaa		
Clay	16	16
Boulders and gravel	76	92
Red clay	4	96
Boulders and gravel	66	162
Gray clay	2	164
Boulders and gravel	50	214
Caliche and clay	16	230
Gravel and cemented streaks	20	250
Red clay and gravel	36	286
Sticky red clay	12	298
Cemented sand with small streaks of sand and gravel	12	310
Red clay	22	332
Cemented sand	50	382
Red clay	16	398
Sandy clay	4	402
Clay with sandy streaks	48	450
Red clay	28	478
Hard sandy clay	32	510
Red clay with streaks of blue clay	11	521
TOTAL DEPTH		521
(A-1-1)28bcb		
Top soil	3	3
Hardpan	9	12
Sand, gravel, and boulders, water at 38 feet	146	158
Sand, gravel with a little clay, water bearing	20	178
Clay and caliche, no water	24	202
Cemented sand, sand and strata of clay, water bearing	22	224
Clay, no water	8	232
Cemented sand, sand and strata of clay, water bearing	40	272
Hard cement, no water	4	276
Sand and cemented sand, water bearing	6	282
Clay, no water	18	300
Sand and cemented sand, water bearing	14	314
Clay, no water	30	344
Strata of sand and clay, water bearing	46	390
Clay, no water	10	400
TOTAL DEPTH		400
(A-1-1)32aaa		
Top soil	7	7
Sand	23	30
Sand and boulders	125	155
Clay and gravel, 1½ inches	83	238
Cemented rock	4	242
Fine loose gravel, ¼ inch	2	244
Dry hard clay	6	250
Clay with fine gravel	80	330
TOTAL DEPTH		330

	Thickness (feet)	Depth (feet)
(A-2-1)1dda		
Clay and gravel	50	50
Boulders	50	100
Clay and gravel with very hard streaks of cemented gravel	200	300
Clay and gravel	300	600
Soft clay	42	642
TOTAL DEPTH		642
(A-2-1)2ddd2		
Soil	10	10
Clay and sand	20	30
Gravel	8	38
Pea gravel, some sand	7	45
Gravel, coarse sand, rocks, and clay	79	124
Gravel	42	166
Gravel and clay	4	170
Sandy clay, some gravel	110	280
Sandy clay	50	330
Streaks of sandy clay, gravel, and rocks	70	400
Sandy clay	30	430
Sandy clay and gravel	25	455
Sandy clay	190	645
Clay, very little gravel	245	890
Clay with streaks of sand	280	1,170
Clay with streaks of hard sand	330	1,500
Silt and clay	400	1,900
TOTAL DEPTH		1,900
(A-2-1)4bba2		
Cemented boulders	15	15
Cemented boulders	50	65
Boulders	20	85
Clay and boulders	20	105
Clay and gravel	95	200
Clay and boulders	35	235
Clay and gravel	15	250
Sandy clay	110	360
Sand and gravel	5	365
Sandy clay	45	410
Sand and gravel	10	420
Clay and gravel	60	480
Sandy clay	15	495
Clay	30	525
Sandy clay	35	560
Cemented sand	20	580
Sandy clay	30	610
Clay and gravel	70	680
Sandy clay	70	750
Red clay	35	785
Red clay	15	800
TOTAL DEPTH		800
(A-2-1)4ddd2		
Black soil	2	2
Sand, gravel	4	6
Cemented sand, gravel	14	20
Sand, gravel, some clay	25	45
Sand, gravel	135	180
Hard clay	12	192
Soft sandy clay	53	245
Hard caliche clay	7	252
Soft sandy clay	64	316
Hard caliche clay	8	324
Sand, gravel in soft clay	46	370
Hard caliche clay	15	385
Sand, gravel in soft clay	27	412
Caliche, shell	8	420
Caliche, clay	10	430
Soft sandy clay	32	462
Caliche, clay	18	480
Hard caliche clay	56	536
Soft sandy clay	22	558
Caliche, shell	5	563

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(A-2-1)4ddd2—Continued		
Soft sandy clay	42	605
Caliche, clay	45	650
Soft sandy clay	25	675
Caliche, clay	45	720
Brown clay	80	800
TOTAL DEPTH		800
(A-2-1)5bab		
Topsoil	10	10
Boulders and sand	100	110
Sandy clay	55	165
Sand, loose	30	195
Sandy clay	15	210
Loose sand	30	240
Sand and gravel	112	352
Packed sand	128	480
Sandy clay	40	520
Gravel and clay	30	550
Packed sand, hard	64	614
TOTAL DEPTH		614
(A-2-1)8caa2		
Sandy clay	13	13
Rock	17	30
Gravel and some clay	30	60
Clay	15	75
Gravel and some clay	52	127
Hard clay and caliche	43	170
Cemented clay	2	172
Hard clay	13	185
Cemented sand	1	186
Hard clay	14	200
Hard clay	6	206
Gravel to 1½ inches	8	214
Hard clay	188	402
Hard sandy clay	62	464
Hard clay	44	508
Cemented clay	2	510
Hard clay	5	515
Cemented sand	3	518
Hard clay	47	565
Soft sandy clay	10	575
Hard sandy clay	15	590
Cemented sand	3	593
Hard clay	5	598
Rock	7	605
Hard clay	349	954
Hard sand, clay, several thin shells	46	1,000
TOTAL DEPTH		1,000
(A-2-1)9ddd2		
Topsoil	4	4
Clay and caliche	22	26
Gravel streaks, clay	54	80
Clay, some gravel and boulders	62	142
Sand, 1-inch gravel, clay	23	165
Gravel, 3 inches	7	172
Clay, caliche, some gravel	93	265
Stiff clay, cement streaks	55	320
Clay, caliche	58	378
Stiff clay (sticky)	37	415
Layers, stiff clay and sandy clay	30	445
Caliche	5	450
Clay, caliche	48	498
Clay, some gravel, ¼ inch	14	512
Clay, cemented streaks	38	550
TOTAL DEPTH		550
(A-2-1)11ddd2		
Topsoil	10	10
Sandy clay	40	50
Sandy clay and gravel	60	110
Sand and coarse gravel	55	165
Sandy clay and gravel	245	410
Hard sandy clay, sticky streaks	290	700
Sticky clay	300	1,000
TOTAL DEPTH		1,000
(A-2-1)13ccc		
Fill	4	4
Silt and soil	4	8
Sandy clay	162	170
Sandy clay and gravel	242	412
Clay	388	800
TOTAL DEPTH		800
(A-2-1)14bbb2		
Black topsoil	2	2
Caliche and clay	6	8
Coarse sand	14	22
Clay	18	40
Gravel	10	50
Clay	25	75
Coarse sand	5	80
Gravel	12	92
Clay, gravel	58	150
Hard clay	20	170
Sandy clay	80	250
Sticky sandy clay	25	275
Hard caliche, clay	40	315
Sandy clay	25	340
Caliche, clay	70	410
Gravel to 2 inches	2	412
Caliche, clay	124	536
Soft sandy clay	14	550
Hard brown clay	10	560
Soft sandy clay	20	580
Hard caliche, clay	50	630
Hard brown clay	70	700
TOTAL DEPTH		700
(A-2-1)14bdd		
Soil	10	10
Sand and gravel	10	20
Sand	10	30
Sand and boulders	5	35
Coarse sand	10	45
Red clay and gravel	15	60
Clay and gravel	30	90
Gravel and boulders	30	120
Gravel, streaks of clay	15	135
Soft clay, streaks of gravel	35	170
Gravel, streaks of clay	30	200
Clay, gravel, and boulders	25	225
Sandy clay and gravel	135	360
Sandy clay, streaks of sand	160	520
Coarse sand and gravel, streaks of clay	35	555
Soft sandy clay	135	690
Clay	670	1,360
Brown shale and clay	50	1,410
Clay, shale, sharp sand and gravel	90	1,500
Soft clay, streaks shale	100	1,600
TOTAL DEPTH		1,600
(A-2-1)15cbb		
Topsoil	4	4
Clay and caliche	24	28
Clay, caliche, and some gravel	35	63
Gravel	5	68

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(A-2-1)15cbb—Continued		
Muddy dead sand, some gravel	12	80
Clay, caliche and some gravel, boulders	42	122
Clay and cemented streaks	48	170
Gravel, 3 inches	16	186
Clay and some gravel	44	230
Gravel, $\frac{3}{4}$ inch	6	236
Clay—cemented streaks	38	274
Clay and some gravel	66	340
Clay and cemented streaks	160	500
TOTAL DEPTH		500
(A-2-1)17ddd2		
Topsoil	10	10
Sand, gravel, some clay—boulders	55	65
Clay, some gravel, cemented streaks	145	210
Clay	50	260
Clay, some gravel	52	312
Gravel, some clay	8	320
Clay, hard cemented streaks	110	430
Clay, some gravel	22	452
Clay, hard cemented streaks	98	550
TOTAL DEPTH		550
(A-2-1)18aaa		
Topsoil	6	6
Sand and boulders	84	90
Sandy clay	20	110
Sand and gravel	5	115
Soft sandy clay with caliche, clay	75	190
Sandy clay	140	330
Caliche, clay	90	420
Hard clay	50	470
TOTAL DEPTH		470
(A-2-1)20ccc2		
Topsoil	9	9
Sand and gravel	21	30
Boulders	32	62
Clay	18	80
Gravel	12	92
Clay and gravel	6	98
Sand and gravel	37	135
Cemented boulders	13	148
Sandy clay and caliche	18	166
Cemented sand	14	180
Clay and gravel	12	192
Sand and gravel	12	204
Sand and stone	4	208
Clay with hard shells	40	248
Sand and stone	12	260
Sandy clay with shells	130	390
Caliche, clay, and gravel	50	440
Tight sand and gravel	12	452
Clay with sandstone shells	103	555
Soft sandy clay with hard streaks	141	696
TOTAL DEPTH		696
(A-2-1)20ddd2		
Topsoil	7	7
Clay, caliche	11	18
Clay, sand, gravel	17	35
Heavy gravel	23	58
Sandy clay	9	67
Gravel	11	78
Mushy sand, gravel	7	85
Clay, caliche, cemented streaks	67	152
Sandy clay, some gravel	13	165
Clay, hard cemented streaks, some gravel	85	250
Clay with some gravel	32	282

	Thickness (feet)	Depth (feet)
(A-2-1)20ddd2—Continued		
Mushy sand and gravel	8	290
Tough clay with cemented streaks	32	322
Sand and gravel to $\frac{3}{8}$ inch with some clay	6	328
Clay with some gravel	37	365
Tough clay (sticky)	85	450
Sandy clay	18	468
Sand and fine gravel	4	472
Tough clay with streaks of sandy clay	88	560
TOTAL DEPTH		560
(A-2-1)23dda		
Topsoil	5	5
Sandy clay	10	15
Hard clay and gravel	15	30
Cemented sand	2	32
Clay and gravel	18	50
Sand and gravel	15	65
Caliche	15	80
Packed sand and gravel	20	100
Packed sand	5	105
Brown clay	15	120
Sandy clay with cemented streaks	20	140
Hard brown clay and gravel	10	150
Cemented sand and gravel	50	200
Clay and sand with cemented streaks	30	230
Clay and gravel	35	265
Hard clay	20	285
Sandy clay, cemented streaks	15	300
Clay	6	306
Sandstone and clay	10	316
Light sandy clay	24	340
Hard sandy clay	16	356
Hard clay	8	364
Sand and silt	6	370
Clay	20	390
Packed sand	18	408
Clay and gravel	12	420
Sandy clay	28	448
Sandstone and clay	10	458
Hard sandy clay	12	470
Sandstone and clay in layers	22	492
Streaks, sandstone and clay	34	526
Hard clay	14	540
Sand, clay, and gravel	6	546
Sticky clay	28	574
Clay and gravel	6	580
Sandy clay	10	590
Hard clay	34	624
Clay	30	654
Sandstone and gravel	2	656
Hard clay	6	662
Sand and shale	2	664
Hard sticky clay	36	700
TOTAL DEPTH		700
(A-2-1)26daa		
Topsoil	10	10
Clay and gravel	25	35
Sand and gravel	10	45
Cemented sand	15	60
Sand and gravel	20	80
Hard clay	10	90
Packed sand (little water 80 feet)	10	100
Packed sand with cemented streaks	40	140
Sand, clay, and gravel	20	160
Clay	15	175
Sand and gravel	10	185
Clay	15	200
Sandy clay	8	208
Cemented sand	7	215
Hard clay	12	227
Sandy clay	8	235
Cemented sand	15	250
Cemented sand	10	260
Clay	10	270

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(A-2-1)26daa—Continued		
Cemented sand	10	280
Sticky clay	24	304
Clay	82	386
Gravel	4	390
Clay	14	404
Gravel	4	408
Clay	64	472
Gravel	4	476
Cemented sand	8	484
Clay	108	592
Red clay	109	701
TOTAL DEPTH		701
(A-2-1)28aaa		
Topsoil	6	6
Clay, caliche, and gravel	4	10
Clay	22	32
Clay and some gravel	33	65
Gravel	7	72
Muddy sand	8	80
Clay, some gravel and boulders	15	95
Gravel and boulders	10	105
Clay, cemented streaks, and some gravel	53	158
Gravel to 3 inches	22	180
Clay, cemented streaks, some gravel	58	238
Gravel to 1 inch	8	246
Clay	96	342
Clay, some small gravel	8	350
Tough clay	95	445
Clay, hard cemented streaks	80	525
TOTAL DEPTH		525
(A-2-1)29caa2		
Hard clay	9	9
Packed sand	6	15
Sandy clay	30	45
Hard clay and gravel	45	90
Sandy clay and gravel	22	112
Sand, gravel, and boulders	40	152
Sandy clay and gravel	10	162
Clay, caliche	14	176
Clay, gravel	110	286
Hard clay	118	404
Sticky clay	126	530
Hard clay, cemented sand	6	536
Hard clay	69	605
Sandy clay with hard streaks	81	686
Hard clay	14	700
Sticky clay	100	800
TOTAL DEPTH		800
(A-2-1)30caa2		
Hard clay and gravel	6	6
Clay and packed sand	3	9
Sand and gravel	6	15
Hard clay and gravel	45	60
Sandy clay	12	72
Hard clay and gravel	9	81
Sand, gravel, and boulders	9	90
Sandy clay	22	112
Gravel	16	128
Sandy clay and gravel	56	184
Clay and caliche	13	197
Sandy clay and gravel	73	270
Sticky clay	70	340
Hard clay and some fine gravel	65	405
Sticky clay	111	516
Sandy clay, soft	196	712
Sticky clay	44	756
Hard sticky clay	44	800
TOTAL DEPTH		800

	Thickness (feet)	Depth (feet)
(A-2-1)31daa		
Topsoil	6	6
Clay	64	70
Sandy clay	38	108
Caliche	29	137
Sandy clay	24	161
Sand	9	170
Clay	10	180
Sand	7	187
Clay	39	226
Hard—like rock, had to underream	4	230
Sandy clay	139	369
Hard streak	9	378
Sandy clay, sand in bottom	35	413
TOTAL DEPTH		413
(A-2-1)32dab2		
Dirt fill	3	3
Clay and caliche	12	15
Sandy clay	11	26
Clay and gravel	27	53
Gravel and boulders	14	67
Sandy clay	35	102
Gravel and boulders	10	112
Sandy clay and gravel	39	151
Hard clay	5	156
Clay and gravel	135	291
Sticky clay	14	305
Hard clay	89	394
Clay and gravel	10	404
Hard clay	326	730
Hard sticky clay	45	775
TOTAL DEPTH		775
(A-2-1)33acc2		
Black topsoil	2	2
Clay	4	6
Caliche	24	30
Gravel	18	48
Caliche	14	62
Clay and gravel	8	70
Sand and gravel, 3 inches	33	103
Clay and gravel	15	118
Sand and gravel to 3 inches	20	138
Sand, gravel, several cement streaks	42	180
Gravel to 4 inches	50	230
Sandy clay	30	260
Soft sandy clay	6	266
Hard clay	18	284
Soft clay	8	292
Hard sandy clay	16	308
Caliche and gravel	12	320
Partly cemented sandy clay	140	460
Hard clay, some gravel	10	470
Quicksand	10	480
Hard clay	90	570
Hard clay and gravel	20	590
Hard sandy clay	24	614
Hard clay	28	642
Pea gravel	6	648
Hard clay	64	712
Hard blue clay	12	724
Hard clay	276	1,000
TOTAL DEPTH		1,000
(A-2-1)35ddd		
Silt	20	20
Hard brown clay	15	35
Gravel, tight	30	65
Sandy clay	55	120
Gravel, tight and partly cemented	45	165
Sandy clay	15	180
Cemented gravel	12	192
Hard sandy clay and gravel	33	225

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(A-2-1)35ddd—Continued		
Hard caliche, clay	60	285
Cemented gravel	5	290
Caliche	15	305
Caliche, clay	30	335
Brown clay	35	370
Cemented sand, loose streaks 6 to 12 inches	26	396
Hard caliche, clay	22	418
Caliche	52	470
Gravel, tight	5	475
Gravel to 4 inches	23	498
Caliche, clay	22	520
Caliche	20	540
Sand, gravel	18	558
Caliche	7	565
Sandy clay	55	620
Hard clay	80	700
TOTAL DEPTH		700
(A-2-1)36dad		
Topsoil	5	5
Caliche and gravel	5	10
Sand and gravel	9	19
Clay	31	50
Clay and boulders	4	54
Clay	14	68
Clay and boulders	3	71
Clay	21	92
Clay and gravel	43	135
Clay	35	170
Clay, gravel, and caliche	44	214
Clay	91	305
Clay, some gravel	20	325
Sand, gravel, and caliche	9	334
Sandy clay and gravel	24	358
Gravel, 2 inches	17	375
Sandy clay and gravel	25	400
Clay	300	700
TOTAL DEPTH		700
(A-3-1)2bbb2		
Topsoil	2	2
Sand and boulders	13	15
Clay and boulders	40	55
Sandy clay	25	80
Sandy clay and boulders	80	160
Caliche and gravel	20	180
Sandy clay and gravel	72	252
Clay and boulders	32	284
Sandy clay and gravel	8	292
Clay and boulders	43	335
Sandy clay and gravel	95	430
Conglomerate	176	606
Sticky clay and embedded gravel	219	825
TOTAL DEPTH		825
(A-3-1)4baa2 [Note: Well deepened to 1,000 feet on 6/57]		
Topsoil	3	3
Caliche	3	6
Cemented sand and gravel	2	8
Boulders, sand, and gravel	12	20
Clay and boulders	70	90
Clay and gravel	70	160
Sand and gravel to 5 inches	17	177
Clay and gravel	53	230
Clay and cemented streaks	199	429
Clay and some gravel	110	539
Clay	31	570
Hard clay and sharp rock	56	626
No record	374	1,000
TOTAL DEPTH		1,000

	Thickness (feet)	Depth (feet)
(A-3-1)4dbb2		
Hard soil	3	3
Clay and large gravel	17	20
Cemented gravel	70	90
Clay and gravel, some cemented	305	395
Sandy clay, small gravel	135	530
Sandy clay, cemented streaks	80	610
Sandy clay and gravel, cemented streaks	195	805
Hard clay, small gravel	105	910
TOTAL DEPTH		910
(A-3-1)8baa		
Sand and caliche	10	10
Sand and gravel, dry	25	35
Boulders, dry	25	60
Clay and caliche	10	70
Gravel, dry	5	75
Clay and gravel	43	118
Gravel	5	123
Clay and gravel, water at 138 feet	32	155
Sand	10	165
Clay and caliche	23	188
Sandstone	15	203
Clay and gravel	22	225
Sand	10	235
Clay and caliche	70	305
Sand and gravel to 2 inches	7	312
Clay and gravel	43	355
Gravel to 3 inches	8	363
Clay and sandstone shells	12	375
Clay and gravel	19	394
Sand and gravel to 2 inches	8	402
Clay and shells	68	470
Sand and gravel	10	480
Clay and caliche	15	495
Sand and gravel to 1 inch	13	508
Clay	10	518
Sand and gravel to 1 inch	10	528
Clay and caliche	47	575
Sand	15	590
Clay	35	625
Packed sand	15	640
Clay and sandstone shells	55	695
Clay and gravel	30	725
Clay	35	760
TOTAL DEPTH		760
(A-3-1)12add		
Soil	2	2
Caliche	3	5
Sand, gravel, and cemented boulders	45	50
Clay and caliche	20	70
Cemented sand and gravel	28	98
Strata clay, caliche, and cemented sand	42	140
Sand, gravel, and cemented sand	8	148
Caliche	6	154
Sand and gravel	12	166
Strata cement and sand, clay, caliche	116	282
Strata cement, sand, and small gravel	38	320
Clay	2	322
Strata cemented sand and small gravel	12	334
Clay, caliche, and some sand	60	394
Strata clay, caliche, and some sand	32	426
Coarse gravel	6	432
Strata clay and sand	14	446
Clay	14	460
TOTAL DEPTH		460
(A-3-1)13dda2		
Fill	5	5
Sand and gravel to 4 inches	50	55
Sandy brown clay and gravel to 4 inches	135	190
Sandy brown clay streaks	260	450

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(A-3-1)13dda2—Continued		
Sandy brown clay, streaks sand and gravel, ¼ inch	70	520
Sandy red clay and streaks sand and gravel, ¼ inch	110	630
Sticky clay, streaks sand and gravel, ¼ inch	370	1,000
TOTAL DEPTH		1,000
(A-3-1)16aba2		
Caliche	14	14
Sand and gravel	11	25
Sand and gravel with clay binder	35	60
Sandy clay	25	85
Packed sand with hard streaks	70	155
Sand and small gravel	20	175
Hard dry clay	15	190
Sand, gravel, and boulders	15	205
Sandy clay	95	300
Sandy clay with hard streaks	50	350
Caliche	20	370
Sandy clay and packed sand	90	460
Mucky sand and gravel	20	480
Sandy clay and hard streaks	40	520
Mucky sand and gravel	10	530
Tough red clay	10	540
Sandy clay with hard ribs	25	565
Hard red clay	25	590
Sandy clay with some gravel	50	640
Mucky sand and gravel	15	655
Sandy clay	47	702
TOTAL DEPTH		702
(A-3-1)17abb2		
Topsoil	2	2
Caliche and embedded gravel	13	15
Sand, gravel, and boulders	120	135
Sandy gray clay, and embedded gravel	25	160
Loose sand and gravel	35	195
Sandy gray clay and streaks of gravel	215	410
Gray conglomerate, hard and soft streaks	480	890
Streaks of sticky brown clay and gravel	110	1,000
TOTAL DEPTH		1,000
(A-3-1)18acb2		
Caliche	5	5
Cemented boulders	21	26
Sand	8	34
Boulders	44	78
Clay	11	89
Boulders	12	101
Clay and gravel	23	124
Gravel	41	165
Cemented gravel and clay	31	196
Cemented gravel	8	204
Loose coarse gravel	15	219
Cemented small gravel	11	230
Clay and gravel	30	260
Hard clay	10	270
Fine gravel	9	279
Loose coarse gravel	7	286
Clay and gravel	14	300
Sand and gravel	10	310
Loose sand and gravel	32	342
Clay and gravel	8	350
Hard clay	3	353
Coarse sand	4	357
Jyp rock [gypsum]	7	364
Coarse loose gravel	16	380
Clay and gravel	10	390
Hard clay	20	410
Sandstone	2	412
Fine gravel and sand	2	414
Coarse gravel	11	425
Sand and gravel	6	431
Cemented clay and sandstone	49	480
Sandstone	10	490

	Thickness (feet)	Depth (feet)
(A-3-1)18acb2—Continued		
Clay and gravel	40	530
Silt, gravel, and sand	7	537
Gravel and sand	3	540
Fine sand	22	562
Clay and sand	8	570
Clay	29	599
Coarse gravel and sand	17	616
Sandy clay	18	634
TOTAL DEPTH		634
(A-3-1)19acb		
Boulders, dry	70	70
Clay and caliche	32	102
Gravel, water at 105 feet	8	110
Clay and gravel	70	180
Clay and caliche	60	240
Clay, sandstone shells	40	280
Clay and gravel	68	348
Gravel, 2 inches	7	355
Clay and shells	45	400
Sand and gravel	5	405
Clay and gravel	43	448
Sand	7	455
Clay and shells	65	520
Clay and gravel	40	560
Sand	8	568
Clay	20	588
Sand and gravel to 2 inches	6	594
Clay	8	602
Sand	16	618
Clay and shells	100	718
Sand	4	722
Clay and shells	28	750
TOTAL DEPTH		750
(A-3-1)20ddb		
Caliche	14	14
Cemented boulders	96	110
Loose boulders	28	138
Cemented boulders and clay	72	210
Clay	36	246
Gravel and sand	10	256
Clay and hard shells	114	370
Cemented gravel	8	378
Loose gravel	6	384
Hard clay and shells	122	506
Sandstone	8	514
Gravel	18	532
Sandstone	70	602
TOTAL DEPTH		602
(A-3-1)21ada		
Topsoil	2	2
Boulders	30	32
Clay and boulders	60	92
Clay and gravel	38	130
Sandy clay	10	140
Hard clay, sand, and gravel	60	200
Sticky clay	220	420
Cemented sand and gravel	6	426
Hard clay	9	435
Clay and some gravel	29	464
Hard clay and sandstone ledges	26	490
Sandy clay and streaks of cement	47	537
Sandy clay and gravel	27	564
Clay and streaks of cement	50	614
Sandy silt	28	642
Clay	18	660
Clay and sandstone ledges	60	720
Clay and sandstone ledges	65	785
TOTAL DEPTH		785

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(A-3-1)23aaa		
Topsoil	6	6
Cemented boulders	42	48
Sandstone	12	60
Boulders	20	80
Layers of sandstone and clay with sand and gravel	235	315
Clay	55	370
Sandy clay	45	415
Sandstone	30	445
Soft clay with sand and gravel	100	545
Clay	10	555
Sandstone	20	575
Sandy clay	10	585
Clay	20	605
Sandstone	15	620
TOTAL DEPTH		620
(A-3-1)34ddd2		
Loose gravel	10	10
Caliche, clay	30	40
Hard sandy clay	10	50
Cemented gravel	20	70
Brown clay	15	85
Loose sandy clay	25	110
Hard clay and some gravel	10	120
Brown clay	15	135
Brown clay and streaks of gravel	40	175
Cemented sand and gravel	30	205
Cemented gravel, streaks of clay	30	235
Hard brown clay	85	320
Brown clay and some gravel	10	330
Brown clay and cemented sand	40	370
Gravel, sandy clay	20	390
Hard brown clay, some gravel	15	405
Hard brown clay and cemented sand	35	440
Sticky clay and streaks of cemented sand	10	450
Hard brown clay, streaks of cemented sand	130	580
Hard sandy clay	80	660
Sticky clay, streaks of cemented sand	85	745
Sticky clay	55	800
TOTAL DEPTH		800
(A-4-1)10daa		
Clay	40	40
Hard cemented gravel with very hard streaks	134	174
Cemented gravel with very hard streaks	220	394
Hard cemented gravel	106	500
Hard sandstone	20	520
Cemented gravel (gravel very fine)	112	632
TOTAL DEPTH		632
(A-4-1)13cbb		
Gravel and boulders	60	60
Fine sand	40	100
Pea gravel	80	180
Sand, gravel, streaks clay	220	400
Gravel and clay	20	420
Sand and pea gravel	80	500
Sand and gravel	20	520
Sand, gravel, streaks of clay	40	560
Pea gravel	60	620
Sand and gravel	60	680
Clay, streaks of gravel	20	700
Hard sand and gravel	119	819
Hard shale	21	840
Malpais	50	890
TOTAL DEPTH		890
(A-4-1)27aaa		
Topsoil	2	2
Caliche	2	4
(A-4-1)27aaa—Continued		
Sand, gravel, boulders	18	22
Clay, boulders	278	300
Clay, gravel, boulders	82	382
Sandy clay, gravel	148	530
Sticky clay, gravel	267	797
Hard sticky clay	83	880
Hard conglomerate	27	907
Conglomerate, boulders	129	1,036
TOTAL DEPTH		1,036
(A-4-1)29aaa		
Caliche and boulders	50	50
Caliche and gravel	8	58
Clay and gravel	14	72
Clay	8	80
Gravel, 1 inch	2	82
Clay and gravel	5	87
Gravel, dry	6	93
Caliche	12	105
Clay	10	115
Gravel, dry	3	118
Clay	10	128
Sandstone	12	140
Clay and caliche	10	150
Gravel, some water	2	152
Clay and gravel	28	180
Gravel, 2 inches	7	187
Clay and gravel	8	195
Cemented gravel	30	225
Loose sand and gravel	7	232
Caliche, cemented gravel	28	260
Soft clay and gravel	8	268
Caliche	26	294
Sand and gravel, 6 inches	14	308
Cemented gravel	7	315
Gravel, 2 inches	3	318
Sandstone, shells, cemented gravel	32	350
Gravel, 2 inches	5	355
Cemented gravel	25	380
Gravel, 1 inch and 2 inches	12	392
Cemented gravel	5	397
Gravel, 2 inches	8	405
Sandstone	25	430
Gravel, 2 inches	3	433
Sandstone, cemented gravel	17	450
Sand and gravel, 2 inches	5	455
Cemented gravel	21	476
Sandstone rock	19	495
Gravel, 2 inches	3	498
Cemented gravel, sandstone	14	512
Gravel, 3 inches	5	517
Cemented gravel and sandstone	31	548
Gravel, 1 inch	4	552
Sandstone, rock	6	558
Sand and gravel	14	572
Sandstone and cemented gravel	36	608
Gravel, 1 inch	4	612
Sandstone	8	620
Gravel, 2 and 5 inches	10	630
Sandstone, cemented gravel	20	650
Sand and gravel	6	656
Sandstone	14	670
Sand	3	673
Cemented gravel, sandstone	55	728
Tight gravel and boulders	22	750
Sand, gravel boulders, cemented streaks	55	805
Conglomeration	115	920
Tight sand, gravel, boulders cemented	80	1,000
TOTAL DEPTH		1,000
(A-4-1)31ada		
Soil	12	12
Sand and gravel	28	40
Boulders	60	100
Clay and gravel	90	190
Gravel	90	280

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(A-4-1)31ada—Continued		
Clay and gravel with cemented streaks of gravel	440	720
Gravel	8	728
Tight gravel	42	770
TOTAL DEPTH		770
(A-4-1)33bbb		
Topsoil	2	2
Caliche (hard)	2	4
Cemented sand and gravel	6	10
Clay and boulders	50	60
Clay	80	140
Clay and gravel	35	175
Sand and gravel to 4 inches	41	216
Hard clay—small streaks of gravel	84	300
Hard clay	70	370
Clay and gravel	10	380
Hard clay	90	470
Clay and gravel	68	538
Cemented sand and gravel	5	543
Clay and gravel	37	580
Hard clay	20	600
Clay and gravel	20	620
Cemented gravel with streaks of loose gravel every few feet	320	940
Cemented gravel	60	1, 000
TOTAL DEPTH		1, 000
(A-4-1)36bbb		
Topsoil	2	2
Clay and caliche	3	5
Caliche	4	9
Sand, gravel, and boulders	11	20
Clay and boulders	100	120
Sandy clay	62	182
Clay, gravel, and caliche	108	290
Clay and streaks of cemented sand and gravel	75	365
Clay, some gravel	49	414
Clay and streaks of cemented sand and gravel	96	510
Sandy clay and gravel	7	517
Clay and streaks of tight gravel	33	550
Sandy clay and gravel	6	556
Hard clay	42	598
TOTAL DEPTH		598
(B-1-1)2bbb		
Surface sand and gravel	15	15
Gravel and boulders	85	100
Boulders	65	165
Clay, boulders, and streaks of water-bearing sand	60	225
Water-bearing gravel	25	250
Water-bearing sand and gravel	70	320
Clay and streaks of sand	354	674
Brown sticky clay	126	800
TOTAL DEPTH		800
(B-1-1)4aab		
Topsoil and sandy silt	74	74
Gravel and boulders	80	154
Sand and gravel	1	155
Gravel and boulders	15	170
Sandstone	24	194
Gravel	1	195
Sandstone	10	205
Sand	18	223
Sandstone	2	225
Sand and gravel	13	238
Sandstone	17	255
Sand and gravel	21	276
Sandstone	1	277
Sand and gravel	15	292

	Thickness (feet)	Depth (feet)
(B-1-1)4aab—Continued		
Sandstone	2	294
Sandy clay	14	308
Sand	4	312
Sandstone	6	318
Sand and gravel	12	330
Sandstone	8	338
Hard sand	14	352
Sandy clay	22	374
Sandstone	10	384
Sandy clay	6	390
Clay with sandstone streaks	25	415
Hard red clay	15	430
Sandstone (soft)	4	434
Clay	15	449
Sandstone	2	451
Hard clay	9	460
Sand (hard)	2	462
Clay	18	480
Sand	2	482
Clay	7	489
Sandy clay	7	496
Hard sandy clay	2	498
Clay	8	506
Hard sandy clay	3	509
Soft sandstone	2	511
Clay	4	515
Hard sand	2	517
Clay	3	520
Soft sandstone	12	532
Clay	6	538
Sandstone	5	543
Clay	31	574
Sandstone	1	575
Clay	29	604
Sandstone	1	605
Clay	47	652
Soapstone	1	653
Clay	49	702
TOTAL DEPTH		702
(B-1-1)7aba2		
Topsoil	3	3
Clay and caliche	17	20
Clay	66	86
Sandy clay and gravel	22	108
Clay	182	290
Clay, some gravel	65	355
Sandy clay and fine gravel	7	362
Sticky clay	24	386
Hard clay	34	420
Sandy clay and fine gravel	10	430
Sticky clay	20	450
Sandy clay and fine gravel	6	456
Sticky clay	11	467
Sandy clay	9	476
Sticky clay	14	490
Hard sticky clay	312	802
Clay and gravel	6	808
Hard sticky clay	182	990
TOTAL DEPTH		990
(B-1-1)7caa2		
Topsoil	20	20
Sand	5	25
Sandy clay and caliche shells	80	105
Sand and gravel	10	115
Sandy clay and caliche	150	265
Sticky clay	40	305
Sandstone	25	330
Sandy clay and caliche	370	700
Tough sticky clay	490	1, 190
TOTAL DEPTH		1, 190

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-1-1)10aaa2		
Topsoil	6	6
Caliche	14	20
Coarse sand	10	30
Sand and gravel (boulders)	34	64
Sand and gravel, 1½ inches	36	100
Sand	40	140
Tight sand and caliche (sticky)	33	173
Sand and gravel (boulders)	32	205
Sandy clay, gravel embedded	113	318
Sand and some gravel	40	358
Sandy clay, gravel embedded	32	390
Hard red clay	15	405
Light clay, hard streaks	100	505
Sandstone	21	526
Red clay, gravel embedded, sand streaks	59	585
Light clay and sand streaks	45	630
Brown clay, hard	270	900
TOTAL DEPTH		900
(B-1-1)16acd1		
Topsoil	12	12
Caliche	8	20
Sandy clay	10	30
Sandy clay, gravel, and rocks	10	40
Coarse sand, fine gravel, rocks	22	62
Sandy brown clay	13	75
Sand and gravel	16	91
Sandy brown clay	14	105
Brown clay and rocks	5	110
Brown sandy clay	75	185
Brown sandy clay and gravel	80	265
Brown sandy clay	23	288
Sand, gravel, and clay	13	301
Brown sandy clay	151	452
Brown clay	138	590
Red clay	35	625
Brown clay	463	1,088
Brown sandy clay, some gravel	80	1,168
Sand and gravel, clay streaks	12	1,180
Sand, rocks, clay, and shale	26	1,206
Hard sand and clay	68	1,274
Brown clay and rocks	15	1,289
Hard rock	16	1,305
Hard sand and brown shale	50	1,355
Shale	5	1,360
Coarse sand and brown shale	110	1,470
Sand, rocks, clay, and brown shale	100	1,570
Sandy brown clay, clay and shale	81	1,651
Coarse sand and shale	23	1,674
Hard rock, sand and shale streaks	63	1,737
Hard rock and clay	22	1,759
Rock and hard sand	11	1,770
Hard sand and shale	30	1,800
TOTAL DEPTH		1,800
(B-1-1)17aaa2		
Silt	25	25
Sand	8	33
Clay	12	45
Sand and gravel	60	105
Sandy clay	6	111
Clay	77	188
Sand	44	232
Clay	21	253
Sand	14	267
Gravel	11	278
Sandstone	3	281
Clay with sand streaks	33	314
Red clay	26	340
Sand	20	360
Silt	15	375
Clay with sand streaks	5	380
Red clay	35	415
Gray clay	10	425
Red clay	37	462
TOTAL DEPTH		462

	Thickness (feet)	Depth (feet)
(B-1-1)24abb		
Soil	6	6
Gravelly soil	14	20
Caliche, clay	4	24
Sand and gravel	26	50
Sand, gravel, and small boulders	36	86
Silty clay	5	91
Gravel	2	93
Clay	45	138
Sand, gravel, and small boulders	23	161
Cemented conglomerate	5	166
Sand and gravel	44	210
Clay	8	218
Hard packed sand	20	238
Clay	6	244
Sand and gravel	10	254
Clay	16	270
Tough sandy clay	10	280
TOTAL DEPTH		280
(B-1-1)28baa2		
Topsoil	6	6
Sandy clay	26	32
Boulders; water encountered 28 feet to 184 feet	36	68
Sand and gravel	65	133
Quicksand, water bearing	51	184
Hard clay	12	196
Sandy clay, water bearing	52	248
Hard clay	20	268
Sand, water bearing	2	270
Clay	80	350
TOTAL DEPTH		350
(B-1-1)31daa		
Fine sand	15	15
Sand and river gravel	20	35
Pack sand	3	38
Hard mountain rock	4	42
Mountain rock and water gravel	56	98
Hard granite rock	6	104
TOTAL DEPTH		104
(B-1-1)34dcd2		
Soil and sand	25	25
Boulders and sand	52	77
Cemented gravel	7	84
Quicksand	3	87
Mountain rock	3	90
Hard granite rock	20	110
Conglomerate	15	125
Hard mountain rock	8	133
Water gravel	8	141
Hard mountain and granite rock	13	154
Water gravel	13	167
Granite and malpais rock	8	175
Water gravel	10	185
TOTAL DEPTH		185
(B-1-2)1baa		
Soil	8	8
Gravel and sand	4	12
Sandy clay	14	26
Hard ledge	3	29
Sandy clay	13	42
Sand	4	46
Cemented formation	4	50
Clay	22	72
Coarse sand and clay	18	90
Clay	22	112
Sandy clay	9	121
Coarse gravel	11	132

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-1-2)1baa—Continued		
Clay	4	136
Sand	17	153
Sand and gravel	12	165
Sandstone	2	167
Fine sand	23	190
Clay with gravel	20	210
Hard clay and gravel	10	220
Fine sand	4	224
Soft clay	14	238
Silt	65	303
Fine sand and clay with hard shells	72	375
Sticky clay, red	60	435
Silt and clay	21	456
Silt, gravel and clay, embedded gravel	20	476
Silt and clay	94	570
Silt	3	573
Silt and small gravel	9	582
Mealy silt	19	601
Sticky clay	9	610
Silt with hard ledges	38	648
TOTAL DEPTH		648
(B-1-2)8abb2		
Sand, gravel, caliche	4	4
Caliche	52	56
Caliche, sand, clay	68	124
Clay and gravel	141	265
Clay and gravel	45	310
Clay, sand, gravel, and caliche	70	380
Clay and gravel	6	386
Red clay	14	400
Clay	335	735
Shell	2	737
Clay, sandy	19	756
Shell	2	758
Clay, sandy	70	828
Sand in clay	20	848
Gravel, coarse	18	866
Gravel in clay	10	876
No record	44	920
TOTAL DEPTH		920
(B-1-2)9ada2		
Topsoil	20	20
Caliche	5	25
Sandy clay, caliche	65	90
Cemented sand	5	95
Sand, sandy clay	35	130
Sandy clay	55	185
Clay	15	200
Silty clay	20	220
Clay	20	240
Sand	15	255
Sandy clay	65	320
Sand	10	330
Sandy clay	10	340
Clay	270	610
Silty clay	30	640
Clay	125	765
Silty clay with cemented sand streaks	60	825
Silty clay	75	900
Tight silty sand	25	925
Tight sand and conglomerate	35	960
Cemented sand and gravel	150	1,110
Cemented conglomerate	45	1,155
Cemented sand and conglomerate	80	1,235
Cemented granite and conglomerate	210	1,445
TOTAL DEPTH		1,445
(B-1-2)11baa		
Caliche	7	7
Sand	7	14
Sandy clay	126	140
(B-1-2)11baa—Continued		
Gravel	22	162
Sandstone	2	164
Sand and gravel	21	185
Clay	3	188
Sand	19	207
Clay	30	237
Sand and gravel	5	242
Clay	20	262
Sand	26	288
Sandstone	4	292
Sand	5	297
Sand and clay with water	225	522
Dry clay	68	590
Sand and clay	20	610
Dry clay	120	730
Red clay, very hard	52	782
Gray muck with hot water	3	785
Dry clay	52	837
Soft sandstone	28	865
Clay	45	910
Sand with hot water	30	940
Silt, sand, and clay with water	64	1,004
TOTAL DEPTH		1,004
(B-1-2)13dcd		
Medium hard surface sand	115	115
Small gravel	85	200
Gravel with streaks of clay	80	280
Gravel	60	340
Clay and streaks of gravel	80	420
Clay with streaks of fine gravel	21	441
Clay	479	920
Fine gravel	108	1,028
Sand	82	1,110
Hard sand, coarse gravel, packed with 18 yards of gravel	66	1,176
TOTAL DEPTH		1,176
(B-1-2)16bbb		
Soil	2	2
Clay	6	8
Sandy clay	6	14
Clay	34	48
Gyp rock	6	54
Clay, sandy	6	60
Gyp rock	9	69
Clay	21	90
Sand (mucky), first water	29	119
Shale	1	120
Clay	15	135
Shale	1	136
Sandy clay	8	144
Shale (gyp rock)	13	157
Clay, sandy	19	176
Coarse sand	11	187
Clay	23	210
Coarse sand	24	234
Clay	4	238
Shale	6	244
Sandy clay	36	280
Shale	4	284
Clay	420	704
Sandy clay	16	720
Sandstone	12	732
Sandy clay	48	780
Shale	2	782
Clay, sandy	42	824
Coarse sand	4	828
Sandy clay	4	832
Shale	8	840
Gravel in clay	22	862
Gravel	6	868
Gravel in clay	20	888
Gravel	20	908
Gravel in clay	14	922
Gravel	24	946

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-1-2)16bbb—Continued		
Gravel in clay	6	952
Gravel	16	968
Gravel in clay	7	975
Gravel	12	987
Gravel in clay	21	1,008
TOTAL DEPTH		1,008
(B-1-2)17bbc		
Topsoil	5	5
Caliche	7	12
Sandy clay and caliche	122	134
Sand and gravel	6	140
Sandy clay and caliche shells	46	186
Sand	8	194
Clay and gravel	28	222
Sand	14	236
Sandy clay and caliche	64	300
TOTAL DEPTH		300
(B-1-2)18cbb		
Sandy clay	12	12
Caliche	48	60
Caliche, clay	20	80
Hard brown clay	35	115
Soft sandy clay	10	125
Caliche	7	132
Fine sand	3	135
Cemented sand	3	138
Soft sandy clay	32	170
Gravel to 2 inches	4	174
Caliche shell	3	177
Hard brown clay	38	215
Soft sandy clay	60	275
Hard white sandy shell	5	280
Soft sticky clay	10	290
Sandy clay	25	315
Hard clay	5	320
TOTAL DEPTH		320
(B-1-2)22dbb		
Surface sand	30	30
Fine sand	30	60
Sandy clay	20	80
Coarse sand	50	130
Sandy clay	30	160
Coarse sand	20	180
Sand	60	240
Fine sand	15	255
Sandy clay	5	260
Brown sticky clay	5	265
TOTAL DEPTH		265
(B-1-2)26bdc		
Soil	4	4
Clay	7	11
Sandy clay	8	19
Coarse gravel	35	54
Gravel	31	85
River sand	32	117
Clay	2	119
Sand	17	136
Gravel	14	150
Sand	3	153
Shell	1	154
Sand	3	157
Shell	4	161
Gravel in clay	29	190
Clay	4	194
Gravel in clay	10	204
Sand and gravel with clay stringers	82	286
(B-1-2)26bdc—Continued		
Gray rock conglomerates (decomposed granite, quartz, etc.)	163	449
Gray rock conglomerates	43	492
Gray rock conglomerates with gray clay stringers	122	614
Gray rock conglomerates embedded in red clay	11	625
Brown rock conglomerates	30	655
Red rock conglomerates	100	755
Loose gray rock conglomerates	130	885
Conglomerate embedded in clay	40	925
TOTAL DEPTH		925
(B-1-2)28dbb		
Black soil	2	2
Caliche	2	4
Sandy clay	15	19
Clay	4	23
Gravel	33	56
Clay	8	64
Gravel	38	102
Clay, sand, and sandstone strata	38	140
Gravel	16	156
Shell	3	159
Sandy clay	9	168
Shell	2	170
Clay (hard)	18	188
Sandy clay (mucky)	22	210
Clay (tough)	26	236
TOTAL DEPTH		236
(B-1-2)31cba		
Sand	75	75
Sand	125	200
Sand	110	310
Sand	30	340
Clay	60	400
Sand—clay	39	439
Sandy clay	61	500
Clay	65	565
Clay	35	600
Gravel	30	630
Clay	50	680
Clay	120	800
Clay	20	820
Clay and streaks of sand	100	920
Rock	19	939
Rock	8	947
Rock	2	949
TOTAL DEPTH		949
(B-1-2)34abb		
Soil	3	3
Sandy clay	11	14
Sand	6	20
Clay	8	28
Gravel (Gila)	26	54
Gravel (gray)	28	82
Sand and clay strata	54	136
Gravel in clay	34	170
Clay	2	172
Cemented granite	113	285
Brown granite in clay	65	350
Boulders and clay	30	380
Yellow clay with gravel	180	560
Broken and fractured rocks, hard	52	612
TOTAL DEPTH		612
(B-1-2)36bcb		
Sand	3	3
Sand, gravel, and boulders	47	50
Sand and gravel	14	64

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-1-2)36bcb—Continued		
Clay with strata of sand and gravel	18	82
Dry clay	13	95
Strata of sand, small gravel, and clay	22	117
Mountain wash, sand, rock, clay	51	168
Mountain rock embedded in dry clay	12	180
TOTAL DEPTH		180
(B-2-1)1ccc		
Soil	2	2
Hard sandy clay	9	11
Boulders	4	15
Soft sandy clay	3	18
Boulders	26	44
Hard sandy clay	9	53
Boulders	1	54
No record	4	58
Hard sandy clay	38	96
Soft sandy clay	66	162
Very sandy clay	19	181
Firm sandy clay	18	199
Firm light clay	14	213
Firm sandy clay	4	217
Very sandy (running sand)	18	235
Clay, hard	12	247
Sandy clay	21	268
Clay, some gravel	3	271
Sandy clay	17	288
Clay	6	294
Sandy clay	1	295
Sand, caving	5	300
Hard gravelly clay, tough	22	322
Hard sandstone	4	326
Clay	23	349
Hard conglomerate	4	353
Hard clay and pebbles	7	360
Hard conglomerate, sharp	7	367
Clay	21	388
Hard conglomerate	8	396
Clay	2	398
Hard sandstone	2	400
Clay	26	426
Hard conglomerate	3	429
Clay	18	447
Sandy clay	12	459
Clay	5	464
Hard conglomerate	3	467
Clay (no water)	24	491
Sandy clay	7	498
Clay	23	521
Hard conglomerate and sandstone	5	526
Sandy clay	13	539
Clay	14	553
Hard conglomerate	4	557
Sandy clay	12	569
Sticky clay	2	571
Sandstone	10	581
Clay	3	584
Sandy clay	3	587
Clay	9	596
TOTAL DEPTH		596
(B-2-1)2bbb		
White caliche	11	11
Brown silt	10	21
Light and softer silt	19	40
Brown silt	23	63
Sand	19	82
Silt	18	100
Sand	2	102
Silt and clay	46	148
Sand	3	151
Silt and sand	9	160
Clay with gravel	2	162
Sand and gravel, hit water	8	170
Clay with gravel	4	174
Clay with gravel	21	195
(B-2-1)2bbb—Continued		
Hardpan	2	197
Clay with gravel	5	202
Hardpan	2	204
Gravel and boulders	58	262
Clay with gravel	13	275
Hardpan	1	276
Gravel and boulders	46	322
Clay with gravel	2	324
Hardpan	1	325
Caliche	10	335
Silt and clay	2	337
Gravel and boulders	26	363
Clay with gravel	7	370
Caliche	31	401
Gravel	7	408
Hardpan	4	412
Caliche	6	418
Silt	16	434
Clay with gravel	8	442
Silt and clay	8	450
Silt with gravel	4	454
Silt and sand	4	458
Clay with hardpan	16	474
Silt	8	482
Gravel and boulders	8	490
Silt with gravel	6	496
Tight sand	2	498
Clay with gravel	6	504
Gravel	8	512
Caliche	13	525
Hard sand	1	526
Clay with hardpan	4	530
Silt and clay	5	535
Hard sand	2	537
Sand and gravel	17	554
Hard sand	1	555
Caliche	17	572
Hard sand	1	573
Caliche	13	586
Tight sand	4	590
Sand and silt	10	600
Silt	5	605
Gravel	4	609
Clay with gravel	5	614
Hard sand	4	618
Silt	3	621
Gravel	11	632
Clay with gravel	6	638
Tight sand	10	648
Sand and silt	21	669
Clay with more gravel	5	674
Silt and sand	7	681
Caliche	5	686
Fine sand	5	691
Silt	7	698
Silt and sand	24	722
Silt	12	734
Clay and sand	5	739
Hard sand	3	742
Sand and silt	4	746
Caliche	10	756
Clay and silt	12	768
Fine sand	3	771
Hard sand	1	772
Clay	7	779
Tight sand	8	787
Sand	3	790
Clay and silt	9	799
Hard sand	3	802
Caliche	6	808
Tight sand	2	810
Clay and sand	3	813
Caliche	3	816
Fine sand	8	824
Tight sand	8	832
Tight sand and silt	2	834
Silt	6	840
Sand and clay	3	843
Fine sand	3	846
Tight sand	2	848
Hard clay	1	849
Sand with hard balls	6	855

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-2-1)2bbb—Continued		
Hard sand	5	860
Hard clay	2	862
Hardpan	4	866
TOTAL DEPTH		866
(B-2-1)5abc		
Topsoil	3	3
Clay and caliche	12	15
Sandy clay	70	85
Fine sand and clay	32	117
Sandy clay and gravel	29	146
Sand and gravel	4	150
Sandy clay and gravel	190	340
Sandy clay	25	365
Sand and gravel	7	372
Sandy clay and gravel	10	382
Sand, gravel, and sticky clay	33	415
Sandy clay and gravel	15	430
Sticky clay and gravel	44	474
Sand and gravel	13	487
Sticky clay and gravel	80	567
Sandy clay	23	590
Clay and embedded gravel	10	600
Sticky clay and gravel	10	610
Cemented conglomerate	10	620
Sandy clay and gravel	10	630
Sticky clay	20	650
Streaks of sticky and sandy clay	350	1,000
TOTAL DEPTH		1,000
(B-2-1)7abb		
Soil	4	4
Sand	7	11
Caliche	27	38
Sand, gravel, and boulders	48	86
Clay	36	122
Clay and sand	18	140
Fine sand, boulders	40	180
Cemented gravel	14	194
Sand, clay, and gravel	28	222
Fine sand, gravel	78	300
Hard clay	20	320
Sandstone	45	365
Coarse gravel	21	386
Clay	26	412
Sandstone, gravel	13	425
Sand, gravel, boulders	13	438
Clay	24	462
Hard sandstone	4	466
Gravel	8	474
Cemented shell	8	482
Boulders, gravel	14	496
Clay and hard shell	114	610
Coarse gravel	14	624
Clay, sand, gravel	30	654
Coarse sand	29	683
Clay and gravel	7	690
Red clay	10	700
TOTAL DEPTH		700
(B-2-1)8dba2		
Caliche	38	38
Sandy clay	9	47
Sand	5	52
Caliche	9	61
Sand	3	64
Caliche	9	73
Sand	8	81
Caliche	9	90
Sand	14	104
Sandy clay	18	122
Sandy silt	39	161
Sandy clay	17	178

	Thickness (feet)	Depth (feet)
(B-2-1)8dba2—Continued		
Sand	30	208
Silty clay with gravel	2	210
Tight sand	18	228
Gravel with hardpan	2	230
Fine gravel	4	234
Coarse sand	5	239
Coarse gravel	9	248
Boulders	18	266
Silt, clay with hardpan	73	339
Caliche	11	350
Gravel with hard sand	3	353
Fine sand	11	364
Tight sand	29	393
Gravel	2	395
Coarse gravel	9	404
Boulders	18	422
Coarse gravel	2	424
Gravel embedded with loose gravel	9	433
Hard sand with layers of loose sand	7	440
Loose gravel	8	448
Sand, silt	40	488
Tight sand	10	498
Coarse gravel	12	510
Gravel	2	512
Clay with gravel	19	531
Fine gravel	7	538
Silt and clay with gravel	20	558
Tight sand	11	569
Silt and clay	2	571
Tight sand with gravel	2	573
Silt and clay	5	578
TOTAL DEPTH		578
(B-2-1)10bba		
Soil	2	2
Caliche	18	20
Clay and gravel	77	97
Gravel	3	100
Clay and gravel	20	120
Gravel	20	140
Clay and gravel	20	160
Gravel	20	180
Clay and gravel	120	300
Clay	20	320
Clay and gravel	80	400
Clay	106	506
TOTAL DEPTH		506
(B-2-1)14dbb2		
Sand with caliche shells	35	35
Loose sand	10	45
Boulders and sand	34	79
Pack sand	19	98
Gravel (water)	7	105
Pack sand	29	134
Caliche and sand	12	146
Sandstone	6	152
Clay and sand	9	161
Caliche and gravel	8	169
Boulders, sand, and gravel	26	195
Clay	12	207
Sand	2	209
Clay	4	213
Clay and gravel	9	222
Sandstone	5	227
Sand and coarse gravel	35	262
Sand with hard shells	11	273
Caliche and gravel	6	279
Very hard sandstone ledge	12	291
Clay	9	300
Gravel and clay	6	306
Clay	31	337
Sand	28	365
Clay	15	380
Sand and gravel	19	399
Sandstone	3	402

Table 2. --Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-2-1)14dbb2—Continued		
Sand and gravel	10	412
Pack sand	9	421
Clay with hard shells	136	557
Sand and gravel	18	575
Gray clay	69	644
Sandstone	7	651
Clay	35	686
Hard sand, shell	6	692
Hard sand ledge, containing some mica	28	720
TOTAL DEPTH		720
(B-2-1)16ddd		
Caliche and clay	20	20
Pack sand and gravel	2	22
Cemented sand and gravel	8	30
Clay	5	35
Sand	3	38
Caliche and clay	4	42
Sandy clay	52	94
Hard sand	2	96
Hard sandy clay	20	116
Blue sandy chalk	2	118
Sandy clay	7	125
Clay, caliche, and gravel	3	128
Sandy clay	5	133
Red shell	6	139
Sand (first water)	2	141
Sandy clay	12	153
Cemented sand and gravel	2	155
Clay	39	194
Hard fine sand	8	202
Soapstone	3	205
Sandy clay	2	207
Soapstone	6	213
Caliche	3	216
Clay	4	220
Hard sandy clay	38	258
Clay and soap	10	268
Caliche, clay,and gravel	4	272
Caliche	12	284
Clay and soap	6	290
Sandy clay and broken rock	15	305
Brown sandstone	5	310
Sandy clay	2	312
Caliche	3	315
Clay and soap	2	317
Sandy clay	13	330
Packed sand and clay streaks	3	333
Hard sandy clay	2	335
Brown sandstone	5	340
Sandy clay	9	349
Caliche	3	352
Cemented malpais boulders	16	368
Sandy clay	41	409
Packed sand	10	419
Hard sandy clay	5	424
Packed sand	3	427
Sticky soap clay	3	430
Sandy clay	25	455
Hard red clay	3	458
Blue sandy chalk	1	459
Sandy silt	1	460
TOTAL DEPTH		460
(B-2-1)19cbb2		
Sand and caliche	30	30
Sand	38	68
Gravel	18	86
Sand and silt	22	108
Gravel	6	114
Red clay	3	117
Gravel	5	122
Sand and silt	18	140
Water, sand, silt, and gravel	10	150
Sand and silt with gravel	20	170
Clay	4	174
(B-2-1)19cbb2—Continued		
Sand	4	178
Caliche	17	195
Red clay	5	200
Hardpan—conglomeration	2	202
Sand	10	212
Coarse gravel	14	226
Fine gravel	16	242
Clay	8	250
Sand	22	272
Clay	10	282
Coarse gravel	20	302
Caliche	15	317
Sand	11	328
Sand and gravel	28	356
Caliche	42	398
Sand and gravel	7	405
Gravel and sand	5	410
Silt and sand	10	420
Clay	16	436
Sand, silt, and gravel	8	444
Clay	20	464
Sand, some gravel	8	472
Sand, silt, some gravel	4	476
Clay, red streaks	6	482
Sand, silt, and gravel	12	494
More gravel	34	528
Gravel	2	530
Sand, silt, and gravel	4	534
Gravel	8	542
Sand and gravel	8	550
Clay with gravel	12	562
Sand and silt, some gravel	2	564
Sand	10	574
Sand and gravel	2	576
Sand	16	592
Sand and silt	10	602
Sand	2	604
Fine gravel, some sand	8	612
Fine gravel	16	628
Sand and gravel	4	632
Sand and some gravel	4	636
Sand and coarse gravel	6	642
Caliche	2	644
Sand	2	646
Sand and silt	16	662
Red clay, some gravel	20	682
Sand and silt	50	732
Sand, silt, some gravel	2	734
Talc	5	739
Sand and silt	1	740
Sand, silt, some gravel	14	754
Red clay, some gravel	18	772
Hardpan, cement sand	4	776
Sand, silt, some gravel	1	777
Sand, silt, some clay	11	788
Sand	16	804
Sand and silt	8	812
Silt and clay	44	856
Sand and silt	2	858
Sand	14	872
Sand and silt	12	884
Red clay	6	890
Sand	12	902
Red clay, some silt	8	910
Sand and silt	8	918
Clay with streaks of sand	16	934
Sand	2	936
Sand and silt	6	942
Silt, some clay	18	960
Hard red clay	6	966
TOTAL DEPTH		966
(B-2-1)20bba		
Missing	120	120
Sand rock	10	130
Small gravel and clay	30	160
Large gravel and sandstone	20	180
Gravel	22	202
Clay balls	18	220

Table 2. --Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-2-1)20bba—Continued		
Gravel and clay	20	240
Clay balls	2	242
Clay, gravel	11	253
Clay	5	258
Clay and gravel	14	272
Clay and gravel	2	274
Sand and gravel	2	276
Sticky clay	6	282
Sandy clay	33	315
Clay and gravel, small	33	348
Large gravel and clay	17	365
Sandy clay and gravel	5	370
Sandstone	5	375
Clay and sand	25	400
Sticky clay	85	485
Clay and small gravel	3	488
Dry hard clay	22	510
Clay and gravel	2	512
Clay	6	518
Clay, gravel, and sand	4	522
Red clay and small gravel	8	530
Sand and boulders	13	543
Clay, sand, and rocks	13	556
Cemented sand and boulders	4	560
Clay and coarse sand	12	572
Boulders and coarse sand	2	574
Sand	12	586
Sand, gravel, and clay	3	589
Red clay and coarse sand	18	607
Clay, gravel, and sand	5	612
Red clay and small gravel	6	618
Cemented sand and boulders	13	631
Coarse sand	3	634
Red clay	18	652
Small gravel, sand, and clay	4	656
Clay and gravel	12	668
Sandy clay	4	672
Gravel and sandy clay	4	676
Clay and silt	24	700
Clay	33	733
Black silt, tight	11	744
Clay and silt	8	752
TOTAL DEPTH		752
(B-2-1)21abb		
Top silty soil	9	9
Caliche, hard	19	28
Clay, streaks of fine sand	12	40
Sand and gravel	18	58
Caliche in clay, streaks of fine sand	29	87
Sand and gravel and boulders, water 108 feet	36	123
Gravel in clay	11	134
Sand and gravel	12	146
Brown silty clay	11	157
Gravel in caliche in clay, hard	2	159
Caliche in red clay	31	190
Brown clay and caliche, some hard, salt	8	198
Gravel and caliche in clay	56	254
Red clay	8	262
Gravel in silty soft clay	64	326
Blue silty clay with streaks of red clay	26	352
Coarse sand and pea gravel	2	354
Caliche and sand, very hard	19	373
Brown clay	24	397
Gypsum in clay, very hard streaks	24	421
Red clay, streaks of gypsum	76	497
Conglomerate, hard	29	526
Gravel in clay and hard streaks of red clay	11	537
Conglomerate, very hard, 90 percent gypsum	35	572
Gypsum, 100 percent	9	581
Gypsum in red and blue clay	62	643
Brown rock, hard	20	663
Talc, white, 100 percent	19	682
Loose clay chunks, water showing	6	688
Gypsum in clay, very hard	43	731
Talc, hard streaks, 100 percent	8	739
Gypsum in clay	5	744
Talc, a little green in color	11	755
Red clay with hard streaks	38	793
(B-2-1)21abb—Continued		
Gypsum in brown clay	25	818
Talc, 100 percent	7	825
Gypsum in brown clay, hard	32	857
Talc, white and hard, 100 percent	6	863
Brown silty clay	29	892
Talc, white, 100 percent	1	893
Brown silty clay, blue streaks	15	908
Gypsum in clay	9	917
Talc, 100 percent	2	919
Brown silty clay, blue streaks	20	939
Talc in clay	2	941
Gypsum in brown clay	18	959
Gypsum and cemented sand, very hard	14	973
Tough brown clay	13	986
Cemented sand, very hard	5	991
Gypsum in clay, very hard	11	1,002
Green tight clay	1	1,003
Conglomerate, very hard and black—like lava	5	1,008
Conglomerate, very hard and black and red in color and getting harder as we go deeper	27	1,035
Conglomerate with talc showing strong	3	1,038
Gypsum in brown clay and cinders	21	1,059
Gypsum in brown clay	25	1,084
Brown clay with gray sand streaks	3	1,087
Volcano ash in tight fine sand	4	1,091
Brown clay, very hard	8	1,099
Decomposed granite in clay, very hard	6	1,105
Clay and volcano ash	28	1,133
Talc in clay	19	1,152
Brown clay with blue streaks	5	1,157
White clay	2	1,159
Hard red clay	14	1,173
Dark brown clay, sticky	12	1,185
Hard brown clay, almost rock	31	1,216
Hard red clay with blue streaks (salty)	36	1,252
Brown clay with very hard streaks	16	1,268
Fine pea gravel in clay	3	1,271
Brown clay with silty streaks (salty)	10	1,281
Blue and brown clay, sticky (salty)	43	1,324
Blue sticky clay (salty)	64	1,388
Hard blue clay, streaks of water crystals	40	1,428
Blue clay, very sticky	19	1,447
Solid rock salt. Bottom of well.	5	1,452
TOTAL DEPTH		1,452
(B-2-1)21ccb2		
Sandy clay	18	18
Coarse sand	9	27
Caliche in clay	27	54
Coarse sand and pea gravel	9	63
Sandy clay	24	87
Sand and gravel, size ¼ inch	24	111
Sandy clay	16	127
Caliche in clay	26	153
Coarse sand and gravel	13	166
Sandy clay	8	174
Caliche in clay	20	194
Sticky clay	11	205
Fine sand	2	207
Sand and gravel and streaks of sandstone	21	228
Hard caliche, streaks of clay	19	247
Fine sand and pea gravel, thin streaks of clay	19	266
Red sticky clay and caliche	12	278
Silty clay, streaks of fine sand	25	303
Gravel in clay	19	322
Silty clay	3	325
Sand and gravel	4	329
Caliche in clay	13	342
Coarse sand	3	345
Tight sand and caliche	2	347
Sandy clay	2	349
Fine sand and pea gravel	4	353
Brown silty clay	9	362
Soft sandstone, some pea gravel	1	363
Silty clay	11	374
Sand and gravel, streaks of cemented caliche	11	385
Brown sticky clay	10	395
Fine sand, streaks of caliche	1	396
Pea gravel in clay	4	401

Table 2. --Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-2-1)21ccb2—Continued		
Red clay, streaks of caliche	7	407
Silty clay, red streaks	4	411
Red clay and caliche	13	424
Caliche, hard	3	427
Sandy clay and caliche	12	439
Gravel in clay and caliche	4	443
Sand and pea gravel	4	447
Pea gravel, streaks of sandstone	10	457
Conglomerate, soft	9	466
Coarse sand	3	469
Brown clay and caliche	5	474
Silty clay and caliche	3	477
Fine sand and pea gravel	4	481
Fine sandy clay	5	486
Fine sand, streaks of clay	3	489
Red clay and caliche	2	491
Sand gravel in caliche	7	498
Brown clay, tight streaks of sand and gravel	5	503
Sand and pea gravel	6	509
Caliche in fine sand	2	511
Brown clay	5	516
Fine sand, pea gravel, streaks of caliche	6	522
Brown sandy clay	3	525
Fine sand, tight	7	532
Coarse sand, streaks of clay	6	538
Gray silty clay, streaks of fine sand	9	547
Brown clay and caliche	4	551
Gray silty clay and fine sand	16	567
Caliche in clay and hard streaks	11	578
Red clay and blue streaks	68	646
Red clay and caliche	16	662
Blue and red clay	29	691
Blue clay, hard streaks	13	704
Brown silty clay	5	709
Blue clay, streaks of fine sand	6	715
Red clay, hard streaks	8	723
Blue clay, soft silty streaks	14	737
Tough brown clay	3	740
Red clay with thin streaks of brown shale	60	800
Hard shale	4	804
Red clay	26	830
Hard brown shale	7	837
Red clay with thin streaks of brownish shale	31	868
Sticky brown clay and shale (caving some)	31	899
Red clay	12	911
Brown clay and brown shale (caving)	27	938
Red clay and shale with thin sand streaks (silty sand)	12	950
Red clay and shale	24	974
Brown and blue clay with silty sand streaks (water separation)	5	979
Hard shale	3	982
Brown and blue clay with silty sand streaks	38	1,020
Red clay and shale (caving)	42	1,062
Red clay and shale with gypsum crystals	8	1,070
Hard shell (shale)	3	1,073
Red clay and shale with gypsum crystals	30	1,103
Hard shell (shale)	7	1,110
Red clay and shale	10	1,120
Hard shell	3	1,123
Red clay with silty sand streaks and sandstone ledges	52	1,175
Hard red shale with clay streaks	25	1,200
Red clay and shale with gypsum crystals	50	1,250
Red clay with silty sand streaks	15	1,265
Red clay and shale	20	1,285
Red clay and shale, silty sand streaks	22	1,307
Hardshell cemented sandstone	9	1,316
Clay and shale with sand streaks	31	1,347
Sand and sandstone layers	6	1,353
Red clay and hard shale	9	1,362
Brown shale with sandstone streaks	18	1,380
Hard brown shale	36	1,416
Rotten red shale and sand streak	8	1,424
Red clay and sandstone streaks, getting more blue in color	49	1,473
Soft blue clay	5	1,478
Hard blue clay with white streaks of sulphate or gypsum	94	1,572
Hard and sticky blue and red clay, lots of gypsum	106	1,678
Granite boulder or ledge, could be brown limestone	2	1,680
Sticky blue clay and hard red shale and gypsum	22	1,702

	Thickness (feet)	Depth (feet)
(B-2-1)21ccb2—Continued		
Red clay and gypsum; appeared to be thin layer of sand at 1,702 feet	20	1,722
This layer of sand probably some water; had odor of rotten eggs	1	1,723
Red clay and shale with trace of gravel	67	1,790
White quartz gravel (anhydrite) and red clay about 50-50	6	1,796
White boulders in cemented sand with sand streaks	7	1,803
Sandy clay, streaks of red clay	18	1,821
Sandy clay and quartz, gravel	16	1,837
Tough red clay and gravel, streaks of sandy clay—water table 197 feet, temperature 107°	14	1,851
Cemented gravel and streaks of loose gravel	8	1,859
Hard red clay with trace of gravel	19	1,878
Cemented gravel	2	1,880
Hard red clay with trace of gravel, looks almost blue when dumping	16	1,896
Clay and gravel	2	1,898
Hard brown sticky clay	2	1,900
Running mud; water table dropped to 205 feet	1	1,901
Sticky silty brown clay with trace of anhydrite grains	17	1,918
Cemented gravel	1	1,919
At 1,920 feet, water table 197 feet AM, 205 feet PM		
Red clay, anhydrite gravel, temperature 115°, trace of granite gravel, sandstone ledges, looks black when bailed	16	1,935
At 1,935 feet, water table 198 feet AM, 204 feet PM, temperature 116°		
Cemented gravel (anhydrite)	3	1,938
Sticky red clay, some bentonite	19	1,957
Cemented gravel (anhydrite)	2	1,959
Hard salty sandstone	4	1,963
Sticky red clay shale and some bentonite, odor of rotten eggs below 1,970 feet, anhydrite	22	1,985
Bentonite	5	1,990
TOTAL DEPTH		1,990
(B-2-1)24ccb		
Surface	3	3
Sand	9	12
Sand and boulders, first water	73	85
Cemented gravel	10	95
Clay (sticky)	7	102
Sandy clay	14	116
Sand stone	9	125
Cemented gravel	10	135
Cemented gravel (water)	5	140
Sandy clay	15	155
Hard clay	25	180
Sticky clay	10	190
Hard clay	5	195
Clay	150	345
Light sandy clay	15	360
Sticky clay	60	420
Sandstone	5	425
Cemented gravel	20	445
Hard clay	15	460
TOTAL DEPTH		460
(B-2-1)27cbc		
Soil	4	4
Caliche	4	8
Sandy silt	20	28
Hardpan	13	41
Sandy clay	13	54
Caliche	22	76
Sand	20	96
Boulders	14	110
Sand, gravel	60	170
Boulders	16	186
Fine gravel	9	195
Hardpan	1	196
Fine gravel	18	214
Coarse gravel	6	220
Hardpan	3	223

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-2-1)27cbc—Continued		
Fine gravel	1	224
Boulders	2	226
Silt with gravel	48	274
Hard sand	40	314
Silty clay	44	358
Gravel	18	376
Gravel and clay	54	430
Coarse gravel	3	433
Silt with sand	21	454
Clay with gravel	42	496
Tight sand with gravel	6	502
Tight sand with gravel	4	506
Clay	16	522
Tight sand with gravel	10	532
Clay with gravel	4	536
Tight sand	36	572
Clay	6	578
Tight sand	2	580
Coarse sand	32	612
Clay	10	622
Silty sand	16	638
Tight sand	2	640
Silty clay	28	668
Tight sand	21	689
Sandy clay	19	708
Blue sand clay	24	732
Silt	10	742
Clay	12	754
Tight sand	32	786
Sandy clay	30	816
Silty clay	24	840
Sand, silt	8	848
Clay with streaks sand	47	895
Clay	7	902
TOTAL DEPTH		902
(B-2-1)30caa3		
Top soil	3	3
Caliche	23	26
Caliche and gravel	22	48
Sand	17	65
Sandy clay	15	80
Sand with some gravel	22	102
Sand, some gravel and clay	33	136
Clay, caliche	17	152
Sandy clay	6	158
Sand and gravel	8	166
Large gravel, some sand	9	175
Sandy clay with some small gravel	30	205
Gravel and sandy clay	43	248
Sandy clay, gravel, and caliche	27	275
Brown sandy clay and gravel with some white clay	10	285
Brown sandy clay and hard schelors, some white clay	20	305
Consolidated sandy and layers of brown clay	23	328
Brown sandy clay and gravel with layers of caliche	24	352
Red sandy clay	35	387
Red sandy clay with some small gravel	33	420
Sand and large gravel	7	427
Clay and gravel	9	436
Sand and trace of gravel	30	466
Sandy clay	6	472
Packed sand	35	507
Sticky red clay	4	511
Sand and pea gravel (trace)	29	540
Sand and gravel, some clay	20	560
Packed sand, course with layers of red shell and clay about 5 to 6 inches apart	40	600
Brown sandy clay	30	630
Sandy red clay and shell	10	640
Red clay and shell with some gravel	7	647
Red clay and shell with some gravel and thin layers of soapstone	23	670
Sandy red clay and layers of gray packed sand, some shell and red shell, trace of gravel	65	735
Red sticky clay with layers of packed sand and shell, thin layers of gravel about every 4 feet	55	790
Sandy red clay and sandy red shell with thin layers of gravel and sticky red clay	105	895
(B-2-1)30caa3—Continued		
Sandy red clay and sandy red shell with layers of gravel	25	920
Layers of sandy red clay and sandy red shell and packed sand, trace of caliche with a small amount of sticky red clay	75	995
Sticky red clay with thin layers of shell	5	1,000
TOTAL DEPTH		1,000
(B-2-1)31caa2		
Caliche	40	40
Clay and sand	58	98
Boulders and gravel	28	126
Clay and gravel	8	134
Gypsum rock	14	148
Clay and gravel	46	194
Sand	16	210
Clay and gravel	30	240
Clay and sand streaks	112	352
Sand and small gravel	42	394
Clay	26	420
Clay and sand streaks	25	445
Red clay	25	470
TOTAL DEPTH		470
(B-2-1)32abb		
Dirt and clay	42	42
Clay and gravel	18	60
Clay and tight boulders	18	78
Boulders	6	84
Clay	14	98
Clean boulders	28	126
Clay and hard streaks	28	154
Mucky sand and gravel	16	170
Boulders and gravel	14	184
Clay and hard streaks	21	205
Mucky sand	5	210
Clean boulders	4	214
Clay and tight gravel	4	218
Mucky sand	12	230
Clay	5	235
Clean boulders	40	275
Clay and hard streaks	13	288
TOTAL DEPTH		288
(B-2-1)36cba2		
Soil	3	3
Loose sand	7	10
Loose boulders	50	60
Cement sand and boulders	30	90
Loose sand and boulders	38	128
Loose boulders	28	156
Loose sand and gravel with cement	79	235
Clay	25	260
Hard packed sand	30	290
Sandy clay	18	308
Clay and gravel	96	404
Gravel and sand	4	408
Packed sand	12	420
Sandy clay	20	440
Clay	20	460
Sandy clay	12	472
Clay and hard gravel	56	528
Sand and clay	27	555
Clay	31	586
Sandy clay with some silt	19	605
Sticky clay	45	650
TOTAL DEPTH		650
(B-2-2)1aba2		
Top formation	96	96
Sandy clay	21	117
Sand, silt	20	137
Hardpan	1	138

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-2-2)1aba2—Continued		
Sandy clay	24	162
Hardpan	1	163
Clay	3	166
Hardpan	1	167
Clay	2	169
Hardpan	1	170
Sand, gravel	17	187
Coarse gravel	8	195
Fine sand	8	203
Sandy clay	40	243
Silt	11	254
Sandy clay	24	278
Fine sand	22	300
Boulders	24	324
Hardpan	6	330
Sand, gravel	9	339
Gravel	2	341
Sand, gravel	14	355
Gravel	3	358
Coarse gravel	23	381
Hardpan	1	382
Sand	7	389
Fine sand	16	405
Hard clay	11	416
Tight sand	45	461
Sand, silt	49	510
Hard sandy clay	1	511
Tight sand	31	542
Clay with gravel	43	585
Sandy clay	21	606
Silt, sand	14	620
Coarse gravel	12	632
Sandy clay	10	642
Coarse sand	8	650
Sand, gravel	2	652
Boulders	18	670
Sandy clay	15	685
Tight sand	10	695
Hard sandstone	1	696
Tight sand	2	698
Sandy clay	32	730
Sand	30	760
Fine gravel	4	764
Sandy clay with gravel	3	767
Tight sand	42	809
Coarse gravel	3	812
Hardpan	1	813
Gravel	3	816
Tight sand with gravel	4	820
Clay with gravel	14	834
Coarse gravel	7	841
Tight sand	8	849
Hardpan	1	850
Sandy clay	17	867
Tight sand	7	874
Tight sand with gravel	4	878
Tight sand	22	900
Tight sand with gravel	29	929
Sandy clay	15	944
Tight sand with gravel	13	957
Fine sand	2	959
Tight sand	32	991
Sand, silt	9	1,000
Tight sand	12	1,012
Gravel	4	1,016
Tight sand	4	1,020
Hardpan	1	1,021
Tight sand with gravel	4	1,025
Sandy clay	17	1,042
Fine sand	3	1,045
Hard sandstone	6	1,051
Silty clay	7	1,058
TOTAL DEPTH		1,058
(B-2-2)3bbb		
Soil	3	3
Soft caliche	26	29
Gravel and boulders	7	36
Clay	5	41

	Thickness (feet)	Depth (feet)
(B-2-2)3bbb—Continued		
Hard clay	3	44
Hard caliche	3	47
Coarse sand	10	57
Hard clay	2	59
Coarse sand	2	61
Hard clay	9	70
Sand	12	82
Hard clay	15	97
Sand	1	98
Caliche	107	205
Sand and caliche	7	212
Caliche	33	245
Sand and clay (water)	2	247
Clay and caliche	75	322
Packed sand (water)	2	324
Caliche and clay	24	348
Coarse sand	6	354
Hard clay and cement sand	80	434
Sand and gravel	6	440
Hard clay	9	449
Sandstone	2	451
Hard clay, sand, and gravel	74	525
Rock in clay and caliche sand	4	529
Clay and caliche	22	551
TOTAL DEPTH		551
(B-2-2)5aab		
Fill	10	10
Top soil	20	30
Sand and gravel	30	60
Sandy clay	65	125
Broken rock and sand	10	135
Broken rock, sand, and clay	170	305
Broken rock and sand	40	345
Hard broken granite rock	200	545
Broken granite and cemented clay	10	555
Clay and sand, very little rock	50	605
Hard rock and clay	22	627
Clay and rock, soft streaks	53	680
Granite rock, hard streaks	32	712
Rock and brown clay	8	720
Hard granite rock	5	725
Solid gray granite, bedrock bottom	22	747
TOTAL DEPTH		747
(B-2-2)14bcc		
Topsoil	5	5
Caliche, boulders, and gravel	5	10
Sand and boulders	8	18
Sand and gravel	10	28
Sandy clay	57	85
Sand and gravel	40	125
Sandy clay	45	170
Sand, clay with sandstone streaks	40	210
Coarse sand	30	240
Sandy clay	60	300
Sticky red clay	10	310
Sandy clay with hard streaks	45	355
Sand, gravel with clay streaks to $\frac{3}{4}$ inch	20	375
Clay with cemented streaks	15	390
Sand and gravel to 1 inch	17	407
Clay, hard streaks	13	420
Sand, clay, and gravel	20	440
Sticky red clay	15	455
Sand, gravel, hard streaks to $\frac{3}{4}$ inch	35	490
Sandy clay	65	555
Sticky red clay	40	595
Red clay	63	658
Sandy clay	7	665
Red clay and sandy streaks	81	746
Red clay	24	770
Soft clay	70	840
Light clay and sandy clay streaks	50	890
Soft clay	26	916
Red clay	6	922
Sandy clay	24	946

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-2-2)14bcc—Continued		
Hard clay	9	955
Red clay	25	980
TOTAL DEPTH		980
(B-2-2)24dbb2		
Silt and sand	24	24
Sand	32	56
Hardpan	2	58
Sand	2	60
Caliche	3	63
Clay and silt	5	68
Hard	2	70
Sand and silt	6	76
Hard	1	77
Silt and brown clay	3	80
Silt	2	82
Hard	1	83
Silt and sand	14	97
Hard	1	98
Sand	8	106
Caliche	3	109
Silt and sand	7	116
Hard	1	117
Sand and silt	15	132
Hard	6	138
Sand	2	140
Sand and silt	8	148
Sand	14	162
Hard	2	164
Sand	2	166
Silt and clay	4	170
Hard	1	171
Silt and clay	8	179
Sand	11	190
Gravel	4	194
Hardpan	1	195
Silt and gravel	1	196
Gravel	8	204
Fine sand	2	206
Sand with gravel	1	207
Gravel	8	215
Clay with gravel	7	222
Gravel	10	232
Silt	6	238
Clay with gravel	2	240
Hardpan	8	248
Silt and gravel	1	249
Tight sand	3	252
Sand	2	254
Gravel	6	260
Coarse gravel	2	262
Clay with gravel	8	270
Sand with gravel	1	271
Sand	9	280
Hardpan	5	285
Gravel and sand	1	286
Silt and gravel	14	300
Hardpan	1	301
Tight sand with gravel	1	302
Coarse sand and gravel	10	312
Coarse sand	8	320
Sandstone	5	325
Gravel	3	328
Clay and gravel	6	334
Gravel	41	375
Clay and gravel	3	378
Silt	10	388
Sand, tight	14	402
Sand	4	406
Silt with gravel	5	411
Clay with gravel	13	424
Silt with gravel	20	444
Clay and silt	4	448
Sand	14	462
Sand and gravel	2	464
Silt and clay with gravel	6	470
Fine sand	10	480
Silt	6	486
Sand	4	490
(B-2-2)24dbb2—Continued		
Sand and gravel	8	498
Fine sand	4	502
Gravel	2	504
Medium gravel	1	505
Fine gravel	3	508
Silt and clay	4	512
Sand course	2	514
Tight sand	1	515
Fine sand	8	523
Tight sand	4	527
Clay and silt	7	534
Sand, medium	5	539
Tight sand	5	544
Silt and clay	2	546
Sand	9	555
Silt and clay	1	556
Tight sand	3	559
Silt and sand	2	561
Fine sand	7	568
Hard sandstone	6	574
Coarse sand	1	575
Sand and fine gravel	5	580
Tight sand and silt	11	591
Sand, tight	11	602
Sand and silt	10	612
Tight sand	4	616
Sand and silt	6	622
Fine sand	11	633
Sand and silt	1	634
Fine sand	6	640
Tight sand and silt	2	642
Clay and silt	16	658
Fine sand	58	716
Sand and silt	8	724
Hardpan	12	736
Sand and silt	1	737
Sand	1	738
Fine sand	12	750
Silt and clay	10	760
Fine sand	4	764
Sand	14	778
Sand and silt	24	802
Clay and silt	4	806
Sand	32	838
Fine sand	4	842
Sand and silt	2	844
Silt	12	856
Hard sand	4	860
Silt	18	878
Silt and sand	11	889
Hard sand	17	906
Sand and silt	4	910
Tight sand	2	912
Silt and sand	6	918
Red clay	18	936
Tight sand	3	939
Red clay	17	956
TOTAL DEPTH		956
(B-2-2)27aaa		
Topsoil	5	5
Caliche	7	12
Sand, 10-inch rock	48	60
Sandy clay	65	125
Caliche	10	135
Clay	50	185
Sand	20	205
Hard clay	15	220
Sand with 1-inch gravel	30	250
Clay, 1-inch gravel	40	290
Clay, hard streaks	225	515
Fine sand	10	525
Soft clay	265	790
Tight clay	10	800
Brown clay, cemented and sand streaks	72	872
Brown clay, cemented and sand streaks, streaks sandy, hard clay	223	1,095
Brown and gray clay, some sand, water level 352 feet	40	1,135

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-2-2)27aaa—Continued		
Gray clay, some sand, water level 346 feet	130	1,265
Sandy gray clay, streaks sand and gravel, ½ inch	75	1,340
Sand and gravel to 3 inches, water level 341 feet	75	1,415
Cemented sand and gravel, 1 inch	10	1,425
Streaks of cemented sand and gravel, sand and gravel 3 inches	95	1,520
Streaks of cemented sand and gravel, sand and gravel 6 inches	82	1,602
TOTAL DEPTH		1,602
(B-2-2)35bbb		
Clay	65	65
Sandy clay	30	95
Clay	30	125
Sand and gravel	30	155
Sandy clay	45	200
Sand and gravel	15	215
Sandy clay	115	330
Clay	105	435
Red clay	80	515
Clay	30	545
Clay and some sand	35	580
Clay	50	630
Sandy clay	50	680
Clay	60	740
Red clay	60	800
Clay and gravel	15	815
Red clay	15	830
Sand	5	835
Red clay	65	900
Clay	220	1,120
Silty clay with hard streaks	175	1,295
Sand and gravel	30	1,325
Sand and gravel, cemented streaks	50	1,375
Cemented sand and gravel	70	1,445
Cemented sand and gravel, clay streaks	165	1,610
TOTAL DEPTH		1,610
(B-3-1)3bbb		
Clay	35	35
Boulders	160	195
Gravel	105	300
Clay and gravel	75	375
Clay	25	400
Clay and gravel with soft streaks	100	500
Clay	24	524
TOTAL DEPTH		524
(B-3-1)5abb		
Clay	21	21
Sandy clay	49	70
Boulders and gravel	55	125
Sandy clay	150	275
Sand and gravel	50	325
Red clay	65	390
Sand and gravel	45	435
Clay	55	490
Sand and gravel	15	505
Red clay	225	730
Sand and gravel	15	745
Clay	58	803
TOTAL DEPTH		803
(B-3-1)7abb		
Surface sand	60	60
Sandy clay	60	120
Brown clay	20	140
Gray sand	20	160
Brown clay	10	170
Coarse gravel	40	210

	Thickness (feet)	Depth (feet)
(B-3-1)7abb—Continued		
Varigated sand	60	270
Brown clay	30	300
Varigated sand	60	360
Brown clay	20	380
Sand and gravel	120	500
Brown clay	180	680
Sand	30	710
Brown clay	40	750
Sand	20	770
Sandy clay	30	800
Varigated sand	40	840
Brown clay	130	970
Sand	45	1,015
Clay	10	1,025
TOTAL DEPTH		1,025
(B-3-1)10acb		
Clay and caliche	50	50
Sand, gravel, and boulders	200	250
Sand and gravel	250	500
Gravel and streaks of clay	100	600
Clay, streaks of sand	50	650
Gravel and sand	155	805
Clay	5	810
TOTAL DEPTH		810
(B-3-1)12bbb		
Top soil	5	5
Cemented boulders	112	117
Hard clay and gravel	218	335
Red coarse sand	15	350
Hard clay and cemented sandstone	220	570
Hard clay	30	600
Hard clay and sandstone strata	260	860
Coarse gravel	10	870
Hard cemented formation	80	950
Red sticky clay	50	1,000
TOTAL DEPTH		1,000
(B-3-1)13dbb2		
Loose sand and gravel	85	85
Brown clay and embedded gravel	25	110
Sand and gravel	75	185
Sandy brown clay and embedded gravel	35	220
White sticky clay	8	228
Sticky brown clay	62	290
Cemented sand, gravel	15	305
Gray clay and embedded gravel	40	345
Cemented sand and gravel	7	352
Hard gray sandy clay and embedded gravel	38	390
Cemented sand and gravel	25	415
Conglomerate, hard and soft streaks	85	500
TOTAL DEPTH		500
(B-3-1)14bbb2		
Clay and caliche	30	30
Gravel, boulders, and cemented sand	92	122
Hard sand	128	250
Clay and sand	69	319
Sand and gravel with streaks of clay	431	750
Sand and gravel	50	800
Sand and clay	10	810
TOTAL DEPTH		810
(B-3-1)17bbb		
Silt and sand	20	20
Gravel and boulders	180	200

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-3-1)17bbb—Continued		
Sand	35	235
Clay	40	275
Sand and clay	23	298
Gravel and sand	120	418
Clay	232	650
Sand and clay streaks	50	700
Gravel and sand	100	800
Clay	146	946
Gravel and sand	132	1,078
Clay	22	1,100
Gravel and sand	110	1,210
Clay	22	1,232
Gravel and sand	118	1,350
Sand and clay	25	1,375
Gravel and sand	93	1,468
TOTAL DEPTH		1,468
(B-3-1)21bbb		
Soil	2	2
Hard caliche	14	16
Sand and gravel	8	24
Clay and caliche	36	60
Caliche, clay, and gravel	90	150
Coarse gravel (tight 3-inch size)	40	190
Sandy clay	15	205
Clay and gravel, 2 inches	45	250
Gravel and boulders, 6 inches	46	296
Hard clay and gravel, tight 6 inches	16	312
Gravel and boulders, 6 inches	54	366
Cemented boulders, 6 inches	14	380
Sand and gravel, 3 inches	14	394
Gravel and boulders, tight 6 inches	28	422
Hard clay and gravel, 3 inches	24	446
Gravel and boulders, tight 4 inches	28	474
Clay	28	502
TOTAL DEPTH		502
(B-3-1)23cbb2		
Soil	10	10
Clay and gravel	110	120
Gravel	200	320
Boulders	20	340
Gravel with some clay	60	400
Clay and gravel with cemented streaks	130	530
Clay	20	550
TOTAL DEPTH		550
(B-3-1)25bbb		
Soil	3	3
Sand and gravel	4	7
Sand, gravel, and boulders	53	60
Sandy clay	180	240
Water, sand with gravel	15	255
Boulders	15	270
Sandy clay	280	550
Gravel	15	565
Clay and sandy clay	73	638
Clay	262	900
Gypsum	10	910
TOTAL DEPTH		910
(B-3-1)32bab		
Sandy clay	10	10
Clay and gravel	15	25
Clay and sandstone strata	75	100
Sand, gravel, and boulders	20	120
Sandy clay and sandstone strata	45	165
Hard gray sandstone	30	195
Sandy clay (very sandy)	105	300
Coarse sand, water at 305 feet	20	320

	Thickness (feet)	Depth (feet)
(B-3-1)32bab—Continued		
Sandy clay	60	380
Sand and boulders, cemented	20	400
Sandy clay	372	772
Sand and gravel	4	776
Red packed sand	8	784
Sandy clay	121	905
Soft sandy clay	123	1,028
Hard red clay	4	1,032
TOTAL DEPTH		1,032
(B-3-1)34abb2		
Top soil	3	3
Sand	2	5
Sandy clay	5	10
Cemented sand	10	20
Loose sand	15	35
Cemented sand	5	40
Caliche	10	50
Sand and gravel	25	75
Coarse sand and gravel	25	100
Sandy clay	5	105
Caliche	25	130
Sand	5	135
Sand, gravel, and boulders	55	190
Sandy clay and gravel	110	300
Sand, gravel, and boulders	25	325
Sandy clay	65	390
Sandy clay with gravel	20	410
Clay and gravel	150	560
Sandstone	30	590
Clay	75	665
Sandy clay	20	685
Sand	10	695
Sand, silt, and clay	30	725
Sandy clay	7	732
Hard clay	68	800
Sandy clay	20	820
Hard clay	155	975
TOTAL DEPTH		975
(B-3-2)1aaa		
Sandy clay and gravel	10	10
Sandy clay	26	36
Caliche	12	48
Clay and gravel	8	56
Gravel	16	72
Hard caliche, clay	22	94
Sandy clay	24	118
Clay and gravel	12	130
Hard sandy clay and caliche	58	188
Hard clay	22	210
Sand and gravel	24	234
Clay and caliche	96	330
Hard red clay	36	366
Soft clay, gravel, and sand	12	378
Caliche and clay	142	520
Pea gravel	4	524
Caliche and clay	41	565
Sand and gravel to 3 inches	15	580
Caliche and clay	20	600
Clay and gravel	50	650
Gravel	10	660
Clay	40	700
Clay and gravel	300	1,000
TOTAL DEPTH		1,000
(B-3-2)10bba		
Soil	6	6
Caliche	2	8
Clay and sand	8	16
Sand	5	21
Sand and caliche	6	27
Clay and caliche	7	34

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-3-2)10bba—Continued		
Clay and sand	6	40
Loose gravel	10	50
Gravel and sand (tight)	4	54
Loose gravel and sand	51	105
Compact sand	1	106
Loose gravel	8	114
Compact sand and gravel	1	115
Sand and gravel	25	140
Decomposed granite	2	142
Fine sand	2	144
Compact sand	6	150
Sand and granite, mixed	5	155
Hard compact sand	20	175
Hard caliche	3	178
Hard sand	4	182
Loose sand	8	190
Hard compact sand	11	201
Sand, gravel (loose and dry)	21	222
Hard caliche	4	226
Fine sand (first water 226 feet)	8	234
Hard sand (dry)	14	248
Caliche	4	252
Hard sand	8	260
Clay and hard sand	10	270
Hard sand	11	281
Hard sand	9	290
Fine sand	2	292
Cement sand	8	300
Cement and clay	4	304
Hard sand rock	2	306
Hard sand and clay	10	316
Sand and clay	5	321
Hard shell, sand rock	1	322
Hard sand	6	328
Hard yellow sand	6	334
Sand and clay	16	350
Hard shell, sand rock	4	354
Sand and clay	4	358
Hard sticky clay	7	365
Clay and sand	15	380
Hard sand and rock	8	388
Sand and clay mixed	33	421
Hard sand and clay	9	430
Sticky clay	3	433
Sand and clay, mixed	6	439
Hard clay and sand	4	443
Sandy	1	444
Hard lime rock	3	447
Sand and clay	14	461
Compact sand	9	470
Hard lime rock	3	473
Hard sand	3	476
Soapstone	2	478
Compact sand	4	482
Hard shell, sand and rock	4	486
Compact sand	6	492
Sand and clay	9	501
Compact sand	15	516
Sand and clay	6	522
Hard sand and rock	6	528
Soft sand	3	531
Hard shell, lime rock	3	534
Clay and sand	6	540
Compact sand	9	549
Sand and clay	7	556
Sandy clay	8	564
Hard sandstone	6	570
Hard sand and gravel	3	573
Hard compact sand	5	578
Sand and clay (soft)	5	583
Hard shell	3	586
Clay and gravel	214	800
Clay	50	850
Sand, clay	50	900
Clay	100	1,000
TOTAL DEPTH		1,000

	Thickness (feet)	Depth (feet)
(B-3-2)11cbb		
Surface sand, clay, and caliche	70	70
Coarse gravel	30	100
Sand and coarse gravel	80	180
Sandy clay	80	260
Clay, streaks of sand	40	300
Sandy clay, sandy streaks	140	440
Sand	40	480
Sandy clay	20	500
Fine sand, gravel	120	620
Clay, sandy streaks	40	660
Sand and gravel	40	700
Streaks of sand and clay	60	760
Sand	100	860
Alternating streaks of sand and clay	120	980
Clay, occasional streaks sand	60	1,040
Sand, streaks sandy clay	220	1,260
Sandy clay, thin streaks of sand	140	1,400
TOTAL DEPTH		1,400

	Thickness (feet)	Depth (feet)
(B-3-2)12bcb		
Top soil	2	2
Caliche	4	6
Clay	60	66
Sand	9	75
Clay	291	366
Clay, some gravel	194	560
Conglomerate—hard	4	564
Clay	52	616
Fine muddy sand	6	622
Clay	134	756
Clay and gravel	24	780
Tight gravel	20	800
Clay and sand streaks	200	1,000
Sand and sandstone streaks	100	1,100
TOTAL DEPTH		1,100

	Thickness (feet)	Depth (feet)
(B-3-2)15dbb		
?	15	15
Sand, some clay	195	210
Sand	150	360
Sand	20	380
Sand, clay, and caliche	200	580
Sandy clay	235	815
Clay	335	1,150
?	120	1,270
Clay	100	1,370
?; too solid	45	1,415
?	15	1,430
Boulders	20	1,450
?	50	1,500
Hard broken sand and boulders	60	1,560
Hard boulders and sand	60	1,620
Broken hard formation	55	1,675
Boulders	60	1,735
Sand and boulders	65	1,800
Sand and boulders	60	1,860
Hard sand and boulders	55	1,915
?	45	1,960
Hard broken sand	14	1,974
?	22	1,996
Boulders, sand, broken	34	2,030
?	45	2,075
Hard sand, broken	50	2,125
?	5	2,130
Sand, broken, hard	35	2,165
Sand, broken, hard	255	2,420
TOTAL DEPTH		2,420

	Thickness (feet)	Depth (feet)
(B-3-2)22abb		
Soil	8	8
Clay and caliche	22	30
Sandy clay, soft streaks	870	900
Tough clay	60	960
Soft clay, small gravel	7	967
Tough clay, few small sharp gravel	133	1,100
TOTAL DEPTH		1,100

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-3-2)23baa		
Sandy clay and little gravel	40	40
Packed sand and gravel	52	92
Sandy clay	18	110
Clay	38	148
Caliche and sandy clay	54	202
Clay, sand, and gravel	12	214
Clay	14	228
Sand, gravel, and little clay	4	232
Clay	13	245
Clay, sand, and gravel	50	295
Sticky sandy clay	29	324
Sandy clay, little gravel and caliche	176	500
Tight gravel	20	520
Clay with streaks of sandstone and sandy clay	480	1,000
TOTAL DEPTH		1,000
(B-3-2)24abb		
Top soil	5	5
Sandy clay	55	60
Sandy clay and pure sand	15	75
Sand and gravel	70	145
Sand and gravel, a little clay	10	155
Sandy clay and gravel	100	255
Sticky clay, water at 260 feet	5	260
Sand and gravel	65	325
Soft clay	15	340
Sand and gravel	20	360
Adobe clay	40	400
Sticky adobe clay	20	420
Hard light clay and caliche	5	425
Caliche	10	435
Adobe, sticky clay	5	440
Adobe clay	10	450
Fine sand and sandy clay	15	465
Adobe clay	10	475
Sandy clay	5	480
Adobe clay	10	490
Sticky clay	20	510
Clay	6	516
Sandy clay and gravel	69	585
Red clay	15	600
Sandy clay and gravel	20	620
Sandy clay	5	625
Sand and gravel	10	635
Red clay	30	665
Sandy clay	70	735
Clay, gravel	25	760
Sand, gravel	15	775
Sandy clay	25	800
Clay and gravel	35	835
Clay and gravel; some sand	40	875
Sandy clay	25	900
TOTAL DEPTH		900
(B-3-2)25dbb		
Top soil	5	5
Hard clay	6	11
Hard cemented shell	2	13
Clay	62	75
Sand and gravel	7	82
Clay	98	180
Sand and gravel	2	182
Clay	406	588
Clay with sand streaks	612	1,200
TOTAL DEPTH		1,200
(B-3-2)34baa		
Clay	80	80
Sand	10	90
Sand	10	100
Clay	30	130
Sand	20	150
Clay	50	200
(B-3-2)34baa—Continued		
Sand	45	245
Clay	30	275
Sand	80	355
Clay	65	420
Sand	55	475
Clay embedded with small gravel	105	580
Sandy clay	120	700
Sticky brown clay	450	1,150
Sand	150	1,300
Hard tight sand	20	1,320
TOTAL DEPTH		1,320
(B-4-1)9bcd		
Hard red clay	12	12
Caliche	5	17
Sandy red clay	13	30
Caliche	5	35
Brown clay	19	54
Gravel and clay	2	56
Sandy brown clay	62	118
Clay and caliche	18	136
Gravel and caliche	4	140
Caliche	14	154
Brown sandy clay	30	184
Gravel and caliche	14	198
Sandy brown clay	50	248
Caliche and gravel	12	260
Hard brown clay	10	270
Cemented gravel to 3 inches	10	280
Brown clay and gravel to 2 inches	15	295
Cemented gravel to 2 inches	9	304
Hard cemented sand, gravel 1 inch to 2 inches	18	322
Sandy brown clay	2	324
Conglomerate	40	364
Sandy brown clay, cemented streaks	36	400
Conglomerate	100	500
TOTAL DEPTH		500
(B-4-1)15abb		
Soil	45	45
Sand, gravel, and boulders	175	220
Sandstone	16	236
Water, sand	4	240
Cemented boulders	35	275
Sandstone	28	303
Cemented boulders	72	375
Water, gravel	7	382
Cemented boulders	14	396
Water, sand and gravel	4	400
Cemented sand, gravel, boulders, and clay	400	800
TOTAL DEPTH		800
(B-4-1)19baa		
Clay	10	10
Hard sand and gravel	50	60
Sand, gravel, and clay	26	86
Sand and gravel	14	100
Hard sand and gravel	17	117
Clay	79	196
Hard shell of cement	4	200
Clay	5	205
Clay	7	212
Clay, sand, and gravel	31	243
Clay	32	275
Clay, sand, and gravel	5	280
Hard cement shell	4	284
Clay	44	328
Tight clay and gravel	39	367
Clay	45	412
Tight clay and gravel	42	454
Clay	64	518
Tight clay and gravel	12	530
Clay	15	545

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-4-1)19baa—Continued		
Clay, sand, and gravel	29	574
Clay	6	580
Clay and sandstone	8	588
Hard clay	2	590
Hard streaks of clay	15	605
Hard streaks of clay and gravel	275	880
Clay and gravel	200	1, 080
TOTAL DEPTH		1, 080

	Thickness (feet)	Depth (feet)
(B-4-1)20bcb		
Surface soil	8	8
Caliche	2	10
Caliche, gravel, and rocks	40	50
Cement, sand, and gravel	25	75
Clay and caliche	25	100
Sand, gravel, and clay	6	106
Caliche and clay	49	155
Sand and clay	5	160
Hard clay	84	244
Clay and caliche	21	265
Sandy clay	5	270
Clay and caliche	68	338
Cement, gravel, and clay	10	348
Caliche and gravel	37	385
Caliche and hard clay	30	415
Packed sand and gravel	5	420
Cement, sand, and gravel	20	440
Cement, sand, and clay	60	500
Caliche and hard clay	50	550
Streaks of gravel and sand	420	970
Cemented gravel	30	1, 000
TOTAL DEPTH		1, 000

	Thickness (feet)	Depth (feet)
(B-4-1)20ccd		
Clay and caliche	4	4
Sand and gravel	8	12
Gravel and clay	8	20
Brown clay	12	32
Gravel and clay	18	50
Brown clay	52	102
Sand and gravel	23	125
Brown clay	15	140
Tight sand and gravel	15	155
Brown clay	35	190
Tight gravel	12	202
Brown clay	18	220
Sand and gravel	2	222
Brown clay and caliche	151	373
Gravel and clay	7	380
Conglomerate	62	442
Clay and cemented gravel	3	445
Brown clay	75	520
Sandy brown clay	30	550
Sand and gravel to 3 inches	10	560
Conglomerate	10	570
Brown clay	7	577
Clay and gravel	228	805
Soft clay and gravel	165	970
Streaks of cemented gravel and loose gravel	130	1, 100
Hard streaks of cemented gravel	95	1, 195
TOTAL DEPTH		1, 195

	Thickness (feet)	Depth (feet)
(B-4-1)23bbb		
Hard soil and gravel	15	15
Gravel	65	80
Gravel and clay, some cemented	130	210
Cemented gravel	515	725
Hard cemented gravel, clay streaks	225	950
TOTAL DEPTH		950

	Thickness (feet)	Depth (feet)
(B-4-1)27cbb		
Red, lots of rock	45	45
Big boulders	23	68
Sand and boulders	6	74
Smaller boulders	2	76
Boulders	6	82
Solid formation	10	92
Boulders	18	110
Sand, clay, and gravel	14	124
Caliche	24	148
Sand, clay with gravel	4	152
Sand	60	212
Gravel, water at 223 feet	10	222
Hardpan	8	230
Silt and sand	5	235
Fine sand	7	242
Gravel	1	243
Hardpan, conglomerate	5	248
Gravel	1	249
Hardpan	3	252
Boulders	2	254
Hardpan, conglomerate cement	3	257
Gravel	1	258
Coarse gravel	5	263
Fine gravel	4	267
Gravel, tight	9	276
Tight sand	4	280
Gravel	12	292
Hardpan	27	319
Boulders	2	321
Hard cement	9	330
Tight gravel	2	332
Clay	4	336
Tight gravel	5	341
Hardpan cement	7	348
Gravel	1	349
Hardpan cement	15	364
Gravel	3	367
Coarse sand	33	400
Hardpan	4	404
Fine sand	1	405
Clay and gravel mountain	13	418
Tight gravel	29	447
Finer gravel	7	454
Hardpan conglomerate	73	527
Tight gravel	1	528
Hardpan	32	560
Tight gravel conglomerate	3	563
Hardpan	9	572
Fine gravel	22	594
Hardpan cement	1	595
Fine gravel	1	596
Cement boulders	6	602
Tight gravel	1	603
Fine gravel	9	612
Hardpan cement	4	616
Tight gravel	2	618
Clay and gravel mountain	12	630
Tight gravel	10	640
Fine gravel	4	644
Coarse sand	6	650
Cement boulders	6	656
Fine gravel	23	679
Clay, gravel mountain	3	682
Hardpan cement	5	687
Tight gravel	1	688
Hardpan cement, plenty hard	24	712
Mountain	10	722
TOTAL DEPTH		722

	Thickness (feet)	Depth (feet)
(B-4-1)32bbc		
Surface sand	120	120
Brown clay	40	160
Gray sand	40	200
Sandy clay	200	400
Gray sand	20	420
Sandy clay	20	440
Sand	98	538
Sandy clay	109	647
Gray sand	53	700

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-4-1)32bbc—Continued		
Clay with streaks of sand	200	900
Gray sand	40	940
Brown clay	20	960
Light gray sand	240	1,200
TOTAL DEPTH		1,200
(B-4-2)13dcd		
Sandy clay	10	10
Clay and gravel	16	26
Caliche	6	32
Gravel to 10 inches	18	50
Sandy clay	12	62
Sandy clay and gravel	14	76
Caliche	8	84
Sandy clay	10	94
Soft cemented sand	12	106
Hard clay and gravel	44	150
Hard caliche, clay	73	223
Soft sandy clay	4	227
Hard caliche, clay	33	260
Soft sticky clay	48	308
Clay and gravel	8	316
Sandy clay	30	346
Hard clay	24	370
Cemented sand and gravel	28	398
Caliche	4	402
Fine sand—tight	2	404
Cemented sand and gravel	4	408
Hard sandy clay	2	410
Cemented sand and gravel	20	430
Concrete	9	439
Hard caliche, clay	5	444
Hard sandy clay	6	450
Caliche, clay	8	458
Sand, gravel in clay	6	464
Cemented sand	8	472
Gravel in hard clay	18	490
Cemented sand and gravel	10	500
TOTAL DEPTH		500
(B-4-2)24bcd		
Clay and caliche	10	10
Sand, gravel, and little clay	12	22
Sandy clay	8	30
Clay and little sand and gravel	47	77
Clay and caliche	16	93
Clay, caliche and sand streaks	7	100
Caliche	20	120
Clay and caliche	22	142
Packed sand and gravel	8	150
Packed sand and gravel	25	175
Clay, sand, and gravel	5	180
Sandy clay and little gravel	72	252
Sticky clay	13	265
Clay and caliche	61	326
Sticky clay	5	331
Clay	73	404
Caliche	4	408
Clay	72	480
Sandy clay	20	500
Clay	6	506
Clay and caliche	44	550
Clay	20	570
Clay and gravel	60	630
Clay streak with sand	120	750
Clay and sandstone	150	900
Sand, clay	20	920
Clay	130	1,050
TOTAL DEPTH		1,050
(B-4-2)26dbb		
Surface soil	4	4
Hard caliche	16	20
Coarse sand	12	32
(B-4-2)26dbb—Continued		
Cemented fine sand	9	41
Boulders and gravel	24	65
Cemented sand	45	110
Boulders and gravel	21	131
Sand and gravel	53	184
Hard brown sand (water cut)	21	205
Good gravel (water cut)	2	207
Brown sandy clay	155	362
Gray sandstone	5	367
Sandy lime rock	40	407
Hard lime clay	11	418
Brown sandy clay	40	458
Cemented sand	9	467
Brown sandy formation	73	540
Gray clay mixed with rock	40	580
Good sand and gravel	15	595
Brown clay and rock	5	600
Gray lime rock	15	615
Sandstone	7	622
Coarse gray sand	4	626
Brown sand	49	675
Cement fine sand	10	685
Brown sand	22	707
White clay and rocks	3	710
Hard brown sand	25	735
Brown sandy clay	10	745
Fine sand	10	755
Hard sand and gravel	5	760
Brown sandy clay	40	800
Sand, lime, rock, and gravel	57	857
TOTAL DEPTH		857
(B-4-2)27dcd		
Sandy brown clay	3	3
Sandy gravel to 1 inch	4	7
Sandy red clay	6	13
Sandy brown clay	33	46
Sandy brown clay	35	81
Caliche	9	90
Brown clay	39	129
Brown clay and caliche	16	145
Brown clay	23	168
Sand and gravel	4	172
Brown clay	291	463
Gravel and clay	2	465
Brown clay	35	500
Clay with sand	380	880
Streaks of very hard clay	20	900
Sandy clay	100	1,000
TOTAL DEPTH		1,000
(B-4-2)35ccc		
Gravel	70	70
Boulders	30	100
Clay and gravel	130	230
Muddy sand	70	300
Sandy clay	100	400
Clay and gravel	50	450
Clay with hard streaks of sandstone	50	500
Cemented clay	20	520
Gypsum rock	2	522
Coarse gravel	2	524
Dry clay	17	541
Clay and fine gravel	19	560
Gravel and sand	18	578
Silt and clay	7	585
Hard shell	2	587
Soft bulky clay	43	630
Silt and clay	34	664
Hard shell	7	671
Sand, gravel, good water	16	687
Cemented clay	11	698
Soft clay, silt, some water	24	722
Hard clay	16	738
Sandstone	41	779

Table 2.--Selected drillers' logs of wells in western Salt River Valley—Continued

	Thickness (feet)	Depth (feet)
(B-4-2)35ccc—Continued		
Dry sand and silt	16	795
Soft sandstone	31	826
Silt and sandstone	21	847
Hardpan	15	862
Sand, silt, and clay	28	890
Clay	5	895
Sandstone, hard clay	45	940
Hard dry clay	25	965
Sand and gravel	7	972
Clay and some gravel	14	986
Hard clay	19	1, 005
TOTAL DEPTH		1, 005

Table 3.--Chemical analyses of water from selected wells in western Salt River Valley

[Analyses in parts per million except as indicated. Analyses by Department of Agricultural Chemistry and Soils, University of Arizona, and by Salt River Valley Water Users' Association]

Owner: BR, Bard Ranch; GF, Goodyear Farms; MC, Maricopa County Municipal Water Conservation District No. 1; RID, Roosevelt Irrigation District; SRV, Salt River Valley Water Users' Association.

Dissolved solids: Dissolved-solids values represent sum of the determined constituents in solution. Soluble constituents in water from Salt River Valley Water Users' Association wells calculated from percentage of reacting values.

Location	Date of collection	Owner	Depth (feet)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids	Hardness as $CaCO_3$		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	Remarks
															Calcium, magnesium	Non-carbonate				
(A-1-1)2bbb2 . . .	10- 1-52	RID	800	83	45	164	. . . . . .	171	0	110	304	. . . . . .	103	954	392	252	48	3. 6	. . . .	
2ccc	2-21-58	SRV	910	89	62	289	. . . . . .	245	0	150	507	. . . . . .	44	1, 260	478	277	57	5. 8	2, 340	
3abb2 . . .	4- 5-50	SRV	600	71	53	113	. . . . . .	149	0	76	258	. . . . . .	93	745	396	273	38	2. 5	1, 380	
6cbb	2-13-53	SRV	1, 230	81	44	138	. . . . . .	200	0	102	269	. . . . . .	43	778	386	222	44	3. 0	1, 430	
9bbb1 . . .	10- 2-45	SRV	345	89	61	156	. . . . . .	203	0	144	309	. . . . . .	74	935	472	306	42	3. 1	1, 700	
9bbb2 . . .	2- 7-61	SRV	500	120	80	162	. . . . . .	169	0	128	465	. . . . . .	68	1, 120	630	492	36	2. 8	2, 080	
10ccc1 . .	5-23-52	SRV	211	149	99	522	. . . . . .	469	0	367	773	. . . . . .	69	2, 220	778	394	59	8. 1	3, 750	
10ccc2 . .	3- 8-61	SRV	662	93	66	314	. . . . . .	292	0	180	517	. . . . . .	37	1, 360	504	264	58	6. 1	2, 450	
12bbb . . .	10- 1-52	RID	622	83	53	382	. . . . . .	339	0	170	540	. . . . . .	38	1, 600	425	147	66	8. 1	. . . .	
35dcd1 . .	9-15-50	SRV	178	239	99	735	. . . . . .	428	0	572	1, 160	. . . . . .	19	3, 050	1, 000	650	61	10	5, 060	
35dcd2 . .	3- 3-60	SRV	500	136	55	391	. . . . . .	243	0	226	691	. . . . . .	6. 8	1, 630	564	365	60	7. 2	2, 910	Deepened?
(A-2-1)2ddd1 . . .	8- 3-60	SRV	380	128	72	83	. . . . . .	131	0	120	354	. . . . . .	80	907	616	509	23	1. 5	1, 740	Deepened, destroyed.
2ddd2 . . .	4-20-62	SRV	1, 500	36	16	89	. . . . . .	148	0	43	118	. . . . . .	17	389	154	32	56	3. 1	774	Perforated from 1, 000 to 1, 500 feet.
	3-27-63	SRV	1, 900	98	48	119	. . . . . .	124	0	105	317	. . . . . .	56	804	443	341	37	2. 5	1, 510	Perforated from 380 to 1, 900 feet.
4cbb	10- 1-52	RID	800	120	34	91	. . . . . .	202	0	100	238	. . . . . .	35	820	440	274	31	1. 9	. . . .	
8cdd2 . . .	10- 1-52	RID	800	38	23	76	. . . . . .	171	0	50	102	. . . . . .	17	477	190	50	47	2. 4	. . . .	
8ddd	7- -61	SRV	600	74	37	63	. . . . . .	171	0	49	182	. . . . . .	31	524	336	196	29	1. 5	1, 030	
9ddd2 . . .	8-18-60	SRV	550	89	58	56	. . . . . .	153	0	76	244	. . . . . .	43	651	460	336	21	1. 1	1, 290	
11ddd1 . .	2-21-58	SRV	220	153	91	127	. . . . . .	208	0	184	411	. . . . . .	112	1, 180	756	586	27	2. 0	2, 130	
11ddd2 . .	12-10-59	SRV	1, 000	105	59	104	. . . . . .	181	0	119	278	. . . . . .	81	837	504	357	31	2. 0	1, 550	
13ccc . . .	4-18-60	SRV	800	16	10	62	. . . . . .	155	0	31	37	. . . . . .	9. 9	244	84	0	62	2. 9	445	
14ccc . . .	6-17-59	SRV	700	110	64	82	. . . . . .	127	0	118	297	. . . . . .	87	833	538	434	25	1. 5	1, 590	
15cbb . . .	1-16-61	SRV	500	110	63	71	. . . . . .	140	0	136	272	. . . . . .	56	780	531	416	22	1. 3	1, 460	
17ddd1 . .	10- 1-46	SRV	232	109	53	139	. . . . . .	278	0	139	266	. . . . . .	56	902	491	264	38	2. 7	1, 610	
17ddd2 . .	4- 3-61	SRV	550	68	41	64	. . . . . .	142	0	67	190	. . . . . .	28	533	338	221	29	1. 5	1, 030	Deepened in 1946.
20ccc2 . .	10- 2-51	RID	696	53	38	95	. . . . . .	202	0	90	160	. . . . . .	24	662	288	123	42	2. 4	. . . .	
20daa . . .	1-18-61	SRV	500	51	33	55	. . . . . .	129	0	38	149	. . . . . .	34	433	264	158	31	1. 5	856	

Table 3. --Chemical analyses of water from selected wells in western Salt River Valley——Continued

Location	Date of collection	Owner	Depth (feet)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids	Hardness as $CaCO_3$		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25° C)	Remarks
															Calcium, magnesium	Noncarbonate				
(A-2-1)20ddd1 ..	10-17-45	SRV	242	103	47	210	......	282	0	166	305	......	86	1,060	448	216	50	4.3	1,840	
20ddd2 ..	8- 9-60	SRV	560	71	44	64	......	124	0	49	217	......	50	558	358	256	28	1.5	1,080	
23ccc ...	6-17-59	SRV	700	104	64	90	......	132	0	129	278	......	105	839	523	415	27	1.7	1,540	
23dda ...	3-16-59	SRV	700	103	68	71	......	154	0	118	236	......	136	817	538	411	22	1.3	1,520	
26daa ...	3-16-59	SRV	701	109	70	79	......	118	0	99	252	......	223	901	562	465	23	1.4	1,660	
28aaa ...	1- -61	SRV	525	101	60	92	......	164	0	89	290	......	74	796	497	362	29	1.8	1,500	
29caa2 ..	10- 1-52	RID	800	38	19	67	......	171	0	40	86	......	16	437	173	33	46	2.2	....	
30caa2 ..	10- 1-52	RID	800	45	26	86	......	181	0	60	128	......	18	544	220	71	46	2.5	....	
30ddd1 ..	10- 8-46	SRV	206	186	73	129	......	265	0	195	387	......	99	1,200	765	548	27	2.0	2,100	
30ddd2 ..	6-17-47	SRV	630	46	19	61	......	168	0	49	88	......	19	368	194	56	41	1.9	702	
35ddd ...	3-25-59	SRV	700	71	49	185	......	181	0	87	342	......	68	897	376	228	52	4.1	1,700	
36dad ...	8- 8-60	SRV	700	90	55	157	......	148	0	86	342	......	124	929	451	330	43	3.2	1,730	
(A-3-1)13dda1 ..	2- 6-56	SRV	440	118	50	76	......	171	0	84	274	......	68	756	502	362	25	1.5	1,420	
13dda2 ..	3-16-59	SRV	1,000	45	24	58	......	150	0	39	106	......	31	379	211	88	38	1.7	737	
21ada ...	9-22-59	SRV	785	69	24	47	......	158	0	35	131	......	29	419	272	142	27	1.2	820	
27ccc ...	3-16-54	SRV	453	170	63	60	......	223	0	113	329	......	60	908	682	500	16	1.0	1,660	
(A-4-1)4bbb	3-15-46	BR	300	47	15	33		253	0	16	16	0.4	4.3	256	179	0	29	1.1	461	
(B-1-1)4aab	4-30-63	GF	702	128	60	152	......	200	0	280	298	......	25	1,140	566	402	37	2.8	....	
7aba2 ...	9- 9-61	RID	990	118	58	186	......	195	0	345	282	......	26	1,200	533	373	43	3.5	1,800	
7caa2 ...	10-16-51	RID	1,190	98	30	228	......	222	0	360	206	......	18	1,160	368	186	57	.5	....	
9dab	9- 1-59	GF	218	487	190	424	......	239	0	1,380	903	......	16	3,630	2,000	1,800	32	4.1	....	218 feet deep in 1925.
10aaa1 ..	9-21-55	RID	210	203	38	92	......	210	0	110	348	......	32	1,080	663	491	23	1.6	....	
10aaa2 ..	9-12-57	RID	900	110	29	39	......	159	0	30	236	......	....	603	394	263	18	.9	....	
17aaa2 ..	9-16-59	RID	462	103	48	212	......	183	0	420	226	......	12	1,200	454	305	50	4.3	1,700	
(B-1-2)1cbb	7-12-54 4-30-63	GF GF	315 315	225 145	68 60	365 169	....	176 103	0 2	490 255	652 388	....	66 83	2,020 1,210	841 608	698 525	49 38	5.5 3.0	....	
8dda1 ...	9- 9-61	RID	306	144	85	140	......	88	0	215	479	......	55	1,180	709	638	30	2.3	2,200	
9ada1 ...	9-21-55	RID	258	210	105	384	......	268	0	600	640	......	46	2,250	955	735	47	5.4	....	
16bbb ...	9-16-59	RID	1,008	6	6	63	......	122	0	20	40	......	....	257	40	0	78	2.7	520	Perforated from 700 to 998 feet.
17bbc ...	9- 9-61	RID	300	256	121	127	......	89	0	285	705	......	66	1,620	1,140	1,060	20	1.6	2,900	

Table 3. --Chemical analyses of water from selected wells in western Salt River Valley——Continued

Location	Date of collection	Owner	Depth (feet)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids	Hardness as $CaCO_3$		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25° C)	Remarks
															Calcium, magnesium	Noncarbonate				
(B-2-1)2aba	3-31-59	GF	368	24	12	73	......	185	0	58	45	.....	....	389	110	0	59	3.0	....	
2bbb	4-30-63	GF	866	112	42	53	......	176	0	175	167	.....	8	733	452	308	20	1.1	....	
2bbc2 ...	4-30-63	GF	772	134	55	65	......	166	1	238	216	.....	15	890	560	425	20	1.2	....	
2bbd2 ...	4-30-63	GF	926	12	5	178	......	161	6	48	171	.....	5	586	50	0	88	11	....	
7abb	6- 8-57	GF	700	30	13	48	......	178	....	30	33	0.7	8	282	128	....	45	1.8	....	
8dba1 ...	12-29-51	GF	900	15	8	....	......	......	....	....	......	1.2	....	....	70	....	.....	....	....	
8dba2 ...	6- 3-55	GF	578	38	15	27	......	195	0	10	28	.4	5	318	156	0	27	.9	....	
12bdb ...	4-30-63	GF	992	40	21	45	......	137	1	43	73	.....	9	378	186	74	34	1.4	....	
18bbb1 ..	1-25-52	GF	305	15	4	104	......	159	0	70	52	2.0	3	407	54	0	81	6.2	....	
18bbb2 ..	12-17-57	GF	1,120	254	96	148	......	155	....	502	430	.3	116	1,780	1,040	913	24	2.0	....	
19aab1 ..	4-27-56	GF	280	83	38	78	......	171	0	100	184	.....	29	683	364	224	32	1.8	....	
19aab2 ..	4-30-63	GF	722	32	16	123	......	166	0	65	139	.....	10	559	146	10	65	4.4	....	
19cbb2 ..	4-30-63	GF	966	61	33	90	......	156	0	118	184	.....	28	670	288	160	41	1.5	....	
19dbb1 ..	6-16-56	GF	345	68	23	71	......	200	0	80	112	.....	11	565	264	100	37	1.9	....	
19dbb2 ..	4-30-63	GF	627	27	17	116	......	152	0	90	118	.....	8	528	138	13	65	2.6	....	
20bba ...	6- 3-55	GF	752	68	30	111	......	190	10	120	156	.....	18	703	293	138	45	2.8	....	
21ccb1 ..	4- 5-49	GF	200	143	56	140	......	298	0	210	302	.....	....	1,150	588	344	34	2.5	....	
23dcc ...	4-30-63	GF	502	32	18	113	......	171	0	77	102	.....	48	561	154	14	62	4.0	....	
27cbc ...	3- 7-60 4-30-63	GF GF	902	200 134	89 65	234 177	....	380 283	0 1	480 300	370 290	.4	52 25	1,800 1,280	865 602	554 370	37 39	3.5 3.1	....	
28dcb1 ...	1959	GF	274	28	15	112	......	176	0	75	101	.....	14	521	132	0	65	4.2	....	
30caa2 ..	7-17-56 4-30-63	GF GF	564	106 87	59 43	111 178	....	181 117	0 0	170 198	256 326	....	22 25	905 974	507 394	359 298	32 50	2.1 3.9	....	
31caa2 ..	9- 1-59 4-30-63	GF GF	470	242 184	100 88	201 263	....	173 161	0 0	460 595	580 424	....	16 68	1,770 1,780	1,020 821	874 690	30 41	2.7 4.0	....	
32abb ...	6-24-58	RID	288	294	124	255	......	156	0	456	681	.....	....	1,970	1,240	1,120	31	3.1	....	
33bbb2 ..	4-30-63	GF	318	292	156	283	......	181	0	640	808	.....	38	2,400	1,370	1,220	31	3.3	....	
34aad2 ..	4-30-63	GF	386	148	65	75	......	166	7	238	265	.....	38	1,000	637	502	20	1.3	....	
(B-2-2)1aba2 ...	1-25-52	GF	1,058	8	4	98	......	120	0	75	48	1.2	3	356	36	0	85	7.1	....	
3bbb	12-12-29	GF	551	15	11	70	......	161	0	55	32	.....	....	344	82	0	65	3.4	....	
10baa ...	6-23-39	MC	495	30	....	60	......	168	0	40	18	.....	....	316	....	....	.....	....	....	

Table 3.--Chemical analyses of water from selected wells in western Salt River Valley—Continued

Location	Date of collection	Owner	Depth (feet)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids	Hardness as $CaCO_3$		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25° C)	Remarks
															Calcium, magnesium	Noncarbonate				
(B-2-2)11baa ...	10- 9-40	MC	465	23	4	42	......	139	0	10	24	.....	......	246	74	0	55	2.1	....	
	9-10-62	MC	1,000	18	7	47	......	116	......	20	29	1.3	19	....	74	....	58	2.4	....	Deepened.
15aaa ...	2- 7-39	MC	500	15	4	53	......	139	0	30	16	.....	......	257	54	0	68	3.1	....	
22aaa ...	10-12-39	MC	492	15	4	51	......	149	0	10	22	.....	......	251	54	0	67	3.0	....	
	9-10-62	MC	....	21	8	47	......	......	......	20	38	1.4	26	....	86	....	54	2.2	....	
24cbb2 ..	2-24-51	GF	788	30	8	68	......	149	0	50	50	.....	10	365	108	0	58	2.8	....	Compaction well.
	4-30-63	GF	....	16	8	84	......	107	0	47	61	.....	43	366	73	0	71	4.3	....	
24dbb2 ..	5- -51	GF	956	38	19	123	......	129	0	160	98	.....	32	559	173	68	61	4.1	....	
	4-30-63	GF	....	12	5	124	......	44	1	......	122	.....	8	....	50	15	84	7.6	....	
25cbb2 ..	3- 3-49	GF	706	53	8	94	......	142	0	80	98	.....	38	509	165	49	55	3.2	....	
25daa2 ..	5- 5-51	GF	712	38	19	183	......	183	0	230	108	.....	31	792	177	27	69	6.0	....	
	4-30-63	GF	....	18	5	141	......	127	0	112	98	.....	18	519	66	0	82	7.5	....	
27ccc ...	7-11-39	MC	502	50	....	53	......	151	0	20	32	.....	......	296	....	....	.....	......	....	
	9-18-62	MC	1,000	20	7	45	......	......	......	20	26	2.3	11	....	79	....	55	2.2	....	Deepened.
36bbb2 ..	4-30-63	GF	510	18	9	97	......	103	0	87	73	.....	19	406	82	0	72	4.7	....	
(B-3-1)6baa	1939	MC	500	30	8	87	......	185	0	80	42	.....	......	....	108	0	64	3.6	....	
	9-10-62	MC	1,000	19	10	53	......	114	......	46	38	.6	9	268	88	....	57	2.5	....	Do.
(B-3-2)1aaa	4- 3-39	MC	600	23	8	48	......	154	0	30	24	.....	2.7	287	90	0	54	2.2	....	
	8- 8-62	MC	1,000	22	10	40	......	127	......	25	29	.5	13	236	96	....	48	1.8	....	Do.
2baa	3-10-39	MC	655	30	8	36	......	149	0	30	22	.....	4.9	275	108	0	42	1.5	....	
	12-13-62	MC	1,005	17	9	35	......	122	......	20	18	.....	9	192	78	....	49	1.7	....	Do.
10bba ...	10- 9-40	MC	586	38	11	58	......	139	0	70	48	.....	13	377	144	30	47	2.1	....	
12aaa ...	1-26-39	MC	736	23	4	57	......	144	0	30	32	.....	......	290	74	0	63	2.9	....	
12baa ...	1939	MC	500	23	4	39	......	144	0	10	20	.....	......	240	74	0	53	2.0	....	
13baa....	1939	MC	500	23	4	61	......	146	0	30	22	.....	......	276	74	0	64	3.1	....	
22aaa ...	5- 2-39	MC	500	23	4	47	......	139	0	30	20	.....	......	295	74	0	58	2.4	....	
25baa ...	1939	MC	502	15	....	62	......	137	0	30	20	.....	......	267	....	....	.....	......	....	
	9-10-62	MC	1,002	6	3	53	......	112	......	18	19	.8	5	185	28	....	81	4.4	....	Do.
(B-4-1)19baa ...	5- 2-39	MC	590	30	4	62	......	163	0	30	42	.....	2.7	331	92	0	60	4.2	....	
	10- 4-62	MC	1,080	22	8	67	......	153	......	52	35	.8	3	380	88	....	62	3.1	....	Do.
20bcb ...	5- 2-39	MC	550	23	8	95	......	168	0	90	44	.....	3.7	428	90	0	70	4.4	....	
	9-10-62	MC	1,000	26	10	71	......	144	......	69	45	1.6	4	337	106	....	59	3.0	....	Do.
20ccd ...	3-12-39	MC	577	30	4	101	......	171	0	100	46	.....	......	452	92	0	71	4.6	....	
	10- 4-62	MC	1,195	27	11	75	......	148	......	74	49	1.0	7	363	112	....	59	3.1	....	Do.
28baa ...	11- 4-39	MC	524	53	11	40	......	224	0	20	42	.....	6	390	177	0	33	1.3	....	
	10-11-62	MC	1,032	31	10	60	......	203	......	34	30	.8	4	358	118	....	52	2.4	....	Do.
29aaa ...	5- 2-39	MC	548	38	8	67	......	227	0	30	38	.....	......	308	128	0	53	2.6	....	
	9-10-62	MC	1,080	24	6	75	......	151	......	59	38	1.7	5	320	84	....	66	3.6	....	Do.

Table 3. --Chemical analyses of water from selected wells in western Salt River Valley——Continued

Location	Date of collection	Owner	Depth (feet)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids	Hardness as $CaCO_3$		Per-cent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25° C)	Remarks
															Calcium, magnesium	Non-carbonate				
(B-4-1)30dcd ...	11- 4-39	MC	520	30	4	76	......	166	0	60	40	.....	3	376	92	0	64	3.4	....	
	9-18-62	MC	1,025	20	12	60	......	134	......	57	38	0.7	6	288	100	....	57	2.6	....	Deepened.
(B-4-2)24bcd ...	5-12-39	MC	550	15	4	57	......	146	0	30	18	.....	......	270	54	0	70	3.4	....	
	10- 2-62	MC	1,050	22	10	45	......	123	......	30	32	.7	19	285	96	....	51	2.0	....	Do.
26dbb ...	10- 4-62	MC	857	22	8	40	......	131	......	21	21	2.7	11	222	88	....	50	1.9	....	
26ddd ...	10- 4-62	MC	1,000	12	5	45	......	145	......	14	8	.7	3	190	52	....	66	2.7	....	Do.
27dcd ...	4- 3-39	MC	500	23	4	54	......	159	0	30	20	.....	7.1	290	74	0	61	2.7	....	
	10- 4-62	MC	1,000	14	6	40	......	122	......	15	18	.9	4	196	60	....	59	2.2	....	Do.
35ccc ...	1- 2-63	MC	1,005	10	8	35	......	104	......	18	17	.8	5	184	58	....	57	2.0	....	Do.

Table 4.--Field determinations of temperature and specific conductance of water from selected wells, summer 1965, western Salt River Valley

Well location	Temperature (°F)	Field specific conductance (micromhos at 25°C)	Well location	Temperature (°F)	Field specific conductance (micromhos at 25°C)
(A-1-1)2bbb2	83	1, 750	(A-2-1)8cdd2	83	720
2ccc	80	2, 450	8ddd	83	800
3abb2	85	1, 400	9bbb	78	1, 100
3bbb	83	1, 820	9cbb	80	1, 000
4bac	82	2, 000	9ddd2	81	1, 200
5aab	78	1, 610	10aad	....	1, 820
6daa	78	1, 630	11ddd2	83	860
8baa	80	1, 680	13ccc	83	1, 040
9aac	....	1, 500	14acc	83	1, 200
9bbb2	82	2, 000	14bbd	82	1, 220
10ccc	77	2, 400	14ccc	82	1, 420
11add	77	2, 190	15abb	80	1, 370
11ddd	....	1, 220	15cbb	81	1, 390
12bbb	76	2, 500	17cab	83	1, 040
12dba2	75	2, 700	17ddd2	82	1, 010
15daa	74	2, 700	18aad	....	770
16aaa	77	2, 600	20bcc	82	930
17bbb	75	2, 900	20ccc2	83	910
18aab	79	2, 700	20daa	83	940
19abb	77	2, 900	20ddd2	82	1, 210
20baa	....	2, 700	21aad	87	640
21dda	73	3, 700	23ccc	82	1, 410
23dba	71	4, 800	26daa	82	1, 650
23dda	71	4, 800	27ddd	....	1, 700
24aac	71	3, 400	28aaa	80	1, 640
26aaa	73	3, 000	28bdd	....	1, 810
27dda	....	2, 000	29baa	82	970
28cbd	73	5, 600	29caa2	82	780
28dab	72	4, 900	30bcc	81	770
28ddd	73	4, 800	30caa2	84	750
29aac	74	4, 700	30dba	81	1, 400
29acc	76	3, 400	30ddd2	80	1, 400
30aac	76	4, 000	32dab2	83	1, 210
35aad	....	1, 430	33acc2	83	1, 200
35ada	75	1, 600	33ccc	82	1, 750
35dda	76	3, 700	33cdd	82	1, 650
(A-2-1)2ddd2	86	480	34bbb	83	1, 320
4bba1	79	860	34bcc	82	1, 540
4cbb	77	1, 140	35ddd	82	1, 750
4ddd2	80	1, 190	36dad	81	1, 900
5bab	81	580	(A-3-1)1bba	86	500
5bbc	80	650	1cdc	84	810
5cda	75	770	2bbb2	....	780
8caa2	79	960	3aba	80	640

Table 4.--Field determinations of temperature and specific conductance of water from selected wells, summer 1965, western Salt River Valley——Continued

Well location	Temperature (°F)	Field specific conductance (micromhos at 25°C)
(A-3-1)4baa2	81	480
4dbb2	82	500
5abb	78	500
5bbb	76	520
5bcd	78	480
6dbb	76	480
7aaa	75	570
7adc	77	510
8baa	78	520
8dbc	78	650
9aba	82	650
9bbc	81	500
12add	81	870
16aba2	80	1,020
17dbb	80	500
21aad	80	780
21cbb	75	970
22aaa	80	1,220
24cbb	87	520
26add	84	660
26ddd	80	1,480
27ccc	75	1,600
31aba	81	580
31adb	84	470
32aba	74	720
33ddd	79	1,300
34ddd2	81	1,070
35ddd	84	690
36ddd	79	1,480
(A-4-1)13cbb	84	460
14ddd	89	410
15cbb	85	500
15ccb	87	470
23baa	88	420
23daa	91	400
24baa	86	540
24bbc	86	430
24bcc	....	400
24caa	86	410
25aad	85	460
25bbb	92	430
27aaa	86	460
27bab	86	530
28baa	80	570
(A-4-1)29aaa	76	460
29bab	72	480
29ccb	....	410
30aac	72	470
31aaa	....	420
31aad	73	480
31dda	76	410
32baa	77	470
32bab	75	480
33bab	78	700
33bbb	77	480
33caa	80	460
34aba	83	530
34bba	80	630
35bba	86	470
35cba	80	420
(B-1-1)2aab	78	1,170
2add	80	1,000
2bbc	76	1,000
2daa	76	1,740
3baa	75	1,900
4caa	77	2,000
4cbb	78	2,800
5aaa	81	2,800
5bbb	84	1,700
6bba	80	2,700
7bbb	79	3,450
8aaa	75	4,200
8bbb	81	2,000
9aba	74	3,800
10aaa2	75	1,400
10abb	73	2,500
10bad	73	2,300
10dcd	75	1,200
10dda	80	540
12aaa	75	1,900
12baa	78	1,450
12bad	79	1,220
12bba	78	1,400
12bbd	79	1,200
13dbc	77	2,800
15bbb	78	400
15cca	78	1,400
17cbb	80	1,400

Table 4.--Field determinations of temperature and specific conductance of water from selected wells, summer 1965, western Salt River Valley—Continued

Well location	Temperature (°F)	Field specific conductance (micromhos at 25°C)
(B-1-1)18aaa	77	2,700
18baa	106	2,200
18bdd	84	3,600
19bba	78	4,100
20add	76	3,000
20bbb	75	4,200
20cba	....	2,400
20ccc	....	1,800
21aba	78	2,400
21bda	....	620
22bbb	77	2,200
23cda	73	6,400
24cba	73	5,200
24dad	73	5,000
25aaa	73	7,200
25abb	74	6,000
25acd	81	740
25ada	75	4,500
28bab	79	3,000
28bac	76	4,900
29aba	76	3,700
29cbb	84	3,600
29dbc	84	4,000
29dda	76	5,600
30baa	76	3,300
30cac	82	3,200
30dbb	83	3,400
(B-1-2)1bbb	80	2,400
2ccb	118	6,500
3abb	87	560
3bbb	86	570
3cbb	88	900
3dbb	110	670
3dcd	115	1,200
8abb2	95	590
8bbb	97	470
8cbb	89	1,600
8dcc	107	820
8dda2	105	1,600
9ada2	82	3,200
9baa	82	2,200
9bbb	90	1,300
9cbc	94	1,620
9dbb	84	1,700
(B-1-2)10bbb	80	3,500
11baa	83	2,100
12bad	79	3,100
12bba	78	3,600
13dcd	79	5,600
14abb	80	2,500
14ddb	80	4,200
15bbb	81	3,300
17bbb	82	3,500
18bcc	80	3,100
19bbb	88	3,800
21bbb	79	3,700
21dbb	97	1,600
22aba	82	3,800
23aab	79	4,000
25bbb	78	4,800
25cbb	88	2,200
25dbb	83	3,600
26bdc	89	3,900
26ccc	80	4,800
26dbb	92	2,400
27caa	80	4,300
27cbb	78	4,000
27dad	80	5,100
28cbd	78	3,500
28dbb	77	4,200
29ccc	77	5,100
29cdd	78	5,400
29dca	77	4,700
34ccb	78	5,100
35baa	78	4,200
(B-2-1)2bbb	81	800
3abb2	78	1,060
5bbb	86	520
6dbb3	95	580
7bbb2	87	480
7cbb	85	530
10bab	....	580
12bdd3	81	520
12cca	77	650
12cda	81	589
14aaa	83	590
14dbb2	86	620
17bbc	81	420

Table 4.--Field determinations of temperature and specific conductance of water from selected wells, summer 1965, western Salt River Valley—Continued

Well location	Temperature (°F)	Field specific conductance (micromhos at 25°C)
(B-2-1)17cab	....	1,850
18acc	87	520
18bbb2	87	600
18cbb2	88	620
19aab2	89	910
19baa	88	850
19bbb	90	540
19cbb2	90	900
19dbb2	88	770
20bcc	91	650
24bab	79	550
24ccb	78	500
25bbd	80	950
25bcc	79	500
26aca	78	580
26cbc	79	800
27aca	85	690
27cbc	78	1,350
28dcb2	78	2,100
29bba	84	1,000
30aba	83	2,100
30caa2	88	1,750
31bba	90	1,550
32aaa	80	3,400
32baa	80	3,200
33cbb	81	2,300
34caa	77	1,600
34dda	75	1,200
35aac	80	800
35abd	80	390
35bbb	99	530
36caa	77	1,360
(B-2-2)1aba2	90	490
1acb	90	460
1bbb	89	380
2bbc	94	320
10dcc	88	360
11baa	87	440
11bbb	87	410
12abb	89	480
13baa	91	500
14abb	88	430
14bcc	87	480
15aaa	86	400
(B-2-2)22abb	86	340
22bbb	87	360
23baa	90	440
24baa	91	560
24bbb	87	630
24cbb2	89	520
24dbb1	91	570
25aaa	92	950
25abb	91	620
25bbb	90	550
25cbb2	94	700
25daa2	92	825
27aaa	93	520
27baa	86	460
27caa	91	600
27ccc	87	380
28aaa	86	380
28abb	93	375
28cbb	86	440
33abb	86	400
33cbb	84	600
34baa	100	420
36abb	89	650
36bbb2	90	730
36cbb	92	1,900
36dbb	84	2,300
(B-3-1)1cbd	69	410
3bbb	89	940
6acc	89	460
6baa	87	480
7abb	87	460
8abb	89	580
8dbb	86	600
9abb	88	550
9bb	90	540
11bbb	78	540
12bbb	73	380
13bba	79	410
15bbb	91	580
15bbc	85	580
15cbb	97	540
16dba	84	650
16dbb	88	590
17baa	89	540

Table 4.--Field determinations of temperature and specific conductance of water from selected wells, summer 1965, western Salt River Valley——Continued

Well location	Temperature (°F)	Field specific conductance (micromhos at 25°C)	Well location	Temperature (°F)	Field specific conductance (micromhos at 25°C)
(B-3-1)17bbb	92	460	(B-3-2)26cbb	86	340
19abb	87	440	34abb	90	350
19bbb	86	430	35aaa	89	360
20aaa	89	640	35bbb	87	340
21abb	92	590	35cbb	91	360
22abb	83	500	36baa	90	390
23bcc	83	430	(B-4-1)14bbb	81	580
26aba	88	600	15abb	87	600
26abb	84	440	19baa	88	510
27abb	81	500	19bbb	88	440
27cbb	....	500	19bcd	87	460
28abb	90	630	20bcb	91	570
29aba	89	590	20ccd	92	600
29bbb	85	540	21aaa	86	540
29bcc	88	580	21bbb	90	560
31bbb	89	480	22abb	81	520
32baa	91	610	23bbb	80	540
32bba	92	600	27cbb	83	520
34cda	84	590	28baa	88	530
35aab	84	430	29aaa	91	560
35cba	83	560	29abb	90	530
36bbc	81	580	30abb	90	520
(B-3-2)1aaa	86	380	30bcc	115	480
1bbb	88	300	30dcd	88	510
2baa	86	320	32bbc	91	550
2cbc	83	380	33acc	86	520
3baa	92	370	34acb	87	610
3cba	84	310	34cbb	91	610
10bba	85	310	34dbb	90	550
10bcd	86	310	35bca	....	460
10bdd	84	310	(B-4-2)19dda	....	1,300
10dcc	94	310	23cab	....	420
11baa	87	310	23dba	....	440
11cbb	87	300	24bcd	82	515
12aaa	84	460	25baa	88	360
12baa	85	360	26aba	84	360
14bbc	86	310	26baa	88	360
15aaa	90	290	26cba	87	420
22aaa	86	320	26dbb	82	400
23aaa	92	320	26dcb	85	340
23baa	87	320	26ddd	87	310
24abb	88	380	27dcd	82	360
24bbc	90	330	29cbd	86	470
25baa	91	330	30cdc	86	400

Table 4.--Field determinations of temperature and specific conductance of water from selected wells, summer 1965, western Salt River Valley—Continued

Well location	Temperature (°F)	Field specific conductance (micromhos at 25°C)
(B-4-2)32dad	89	460
33bcc	88	450
34daa	93	550
34dba	82	330
(B-4-2)34dbb	95	870
35ccc	85	330
36baa	87	350
36bbc	87	320

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(Continued from inside front cover)

No.

20. Hydrologic and drill-hole data, San Xavier Indian Reservation and vicinity, Pima County, Arizona, by L. A. Heindl and N. D. White: 48 p., 3 figs., 1965.

21. Basic hydrologic data for San Simon basin, Cochise and Graham Counties, Arizona, and Hidalgo County, New Mexico, by N. D. White and C. R. Smith: 42 p., 4 figs., 1965.

22. Bibliography of U.S. Geological Survey water-resources reports, Arizona, 1891 to 1965, compiled by the Arizona District, Water Resources Division, U. S. Geological Survey: 59 p., 1965.

23. Geohydrology of the Dateland-Hyder area, Maricopa and Yuma Counties, Arizona, by W. G. Weist, Jr.: 46 p., 8 figs., 1965.

No.

24. Annual report on ground water in Arizona, spring 1964 to spring 1965, by N. D. White and others: 1965.

25. An appraisal of the ground-water resources of Avra and Altar Valleys, Pima County, Arizona, by N. D. White, W. G. Matlock, and H. C. Schwalen: 66 p., 12 figs., 1966.

26. Basic hydrologic data of the Hualapai, Sacramento, and Big Sandy Valleys, Mohave County, Arizona, by J. B. Gillespie, C. B. Bentley, and William Kam: 39 p., 6 figs., 1966.

27. Basic ground-water data for western Salt River Valley, Maricopa County, Arizona, by William Kam, H. H. Schumann, L. R. Kister, and F. E. Arteaga: 72 p., 11 figs., 1966.

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